

WICHITA GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. ALL CONSTRUCTION SHALL BE COMPLETED FOLLOWING CURRENT CITY STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. CONTRACTOR WILL BE REQUIRED TO PROVIDE NOTICE TO UTILITY COMPANIES A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY EXCAVATION AS FOLLOWS:

KANSAS ONE CALL 687-2470

THE CONTRACTOR MUST NOTIFY THE FOLLOWING IN CASE OF AN EMERGENCY:

- AT&T 1-800-246-8464
- BLACK HILLS ENERGY 1-800-694-8989
- CITY OF WICHITA WATER 1-316-268-4555
- CITY OF WICHITA SEWER 1-316-268-4073
- CITY OF WICHITA STORMWATER 1-316-268-4090
- CITY OF WICHITA TRAFFIC 1-316-268-3530
- COX COMMUNICATIONS 1-888-249-3530
- KANSAS GAS SERVICE 1-888-482-4950
- WESTAR ENERGY 1-800-544-4857

3. UTILITY SERVICE LINES, POLES, ETC. ARE TO BE ADJUSTED AS NECESSARY BY OTHERS PRIOR TO CONSTRUCTION UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR OR UNLESS THE PLANS SPECIFICALLY IDENTIFY A UTILITY TO BE ADJUSTED BY ITS OWNER DURING CONSTRUCTION. EXISTING UTILITIES AND THEIR LOCATION, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.

4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS IN THE OPINION OF THE ENGINEER THAT WILL LEAVE AN UNSIGHTLY APPEARANCE WILL NOT BE APPROVED. ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WILL REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND APPROVED CONSTRUCTION LIMITS WILL REQUIRE ADDITIONAL ARCHEOLOGICAL INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATIONS.

5. TREES AND SHRUBS IN PUBLIC RIGHT-OF-WAY WHICH ARE IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH PROPOSED NEW CONSTRUCTION SHALL BE SAVED AND PROTECTED FROM DAMAGE.

6. THE CONTRACTOR SHALL GIVE ALL PROPERTY OWNERS AND/OR TENANTS OF DEVELOPED PROPERTY ABUTTING THE CONSTRUCTION OF THIS PROJECT A MINIMUM OF TEN (10) DAYS NOTICE PRIOR TO START OF CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR WILL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.

8. THE WATER DISTRIBUTION DIVISION SHALL FIELD LOCATE WATER VALVES ONE TIME DURING CONSTRUCTION WHEN REQUESTED BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE SUCH FIELD LOCATIONS DURING THE CONSTRUCTION PROCESS. WATER VALVES, VALVE BOXES AND WATER METERS WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO MATCH FIELD GRADES.

9. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT ENGINEER AND TOM MASON WITH THE CITY AT 316-268-4574 WITH THE ANTICIPATED CONSTRUCTION START DATE AND NOTIFY THEM OF PROJECT COMPLETION, STAKING AND INSPECTION FOR THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

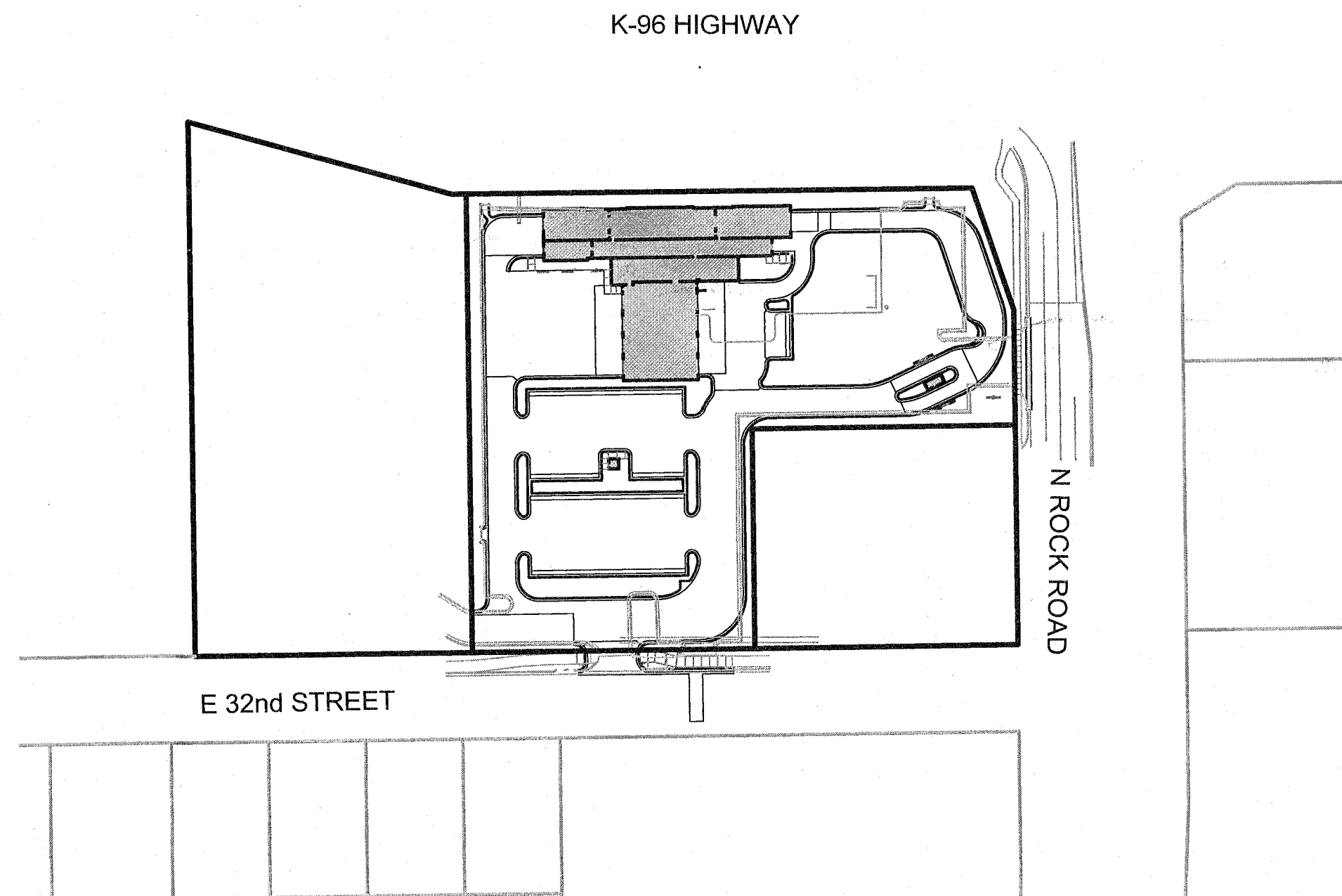
10. IF TRAFFIC WILL BE IMPACTED BY THE CONSTRUCTION, A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY TRAFFIC ENGINEER, BRIAN COON AT traffic@wichita.gov BEFORE CONSTRUCTION CAN BEGIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL MEASURES TO FACILITATE CONSTRUCTION. ALL CONSTRUCTION ZONE MARKINGS AND SIGNAGE SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS PUBLISHED BY THE US DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION. ALL COSTS ASSOCIATED WITH CONSTRUCTION MARKINGS AND SIGNAGE SHALL BE THE CONTRACTORS RESPONSIBILITY.

WICHITA GENERAL NOTES

11. ALL ELEVATIONS SHOWN ARE NAVD 88.
12. ALL AREAS DISTURBED DURING CONSTRUCTION THAT WILL NOT BE UNDER PROPOSED CONSTRUCTION SHALL BE RESTORED TO MATCH EXISTING CONDITIONS.
13. A PORTION OF EXCESS EXCAVATED MATERIAL SHALL BE MOUNDED AROUND MANHOLES WHICH EXTEND MORE THAN ONE (1) FOOT ABOVE THE EXISTING GROUND. SUCH MOUND SHALL BE CONSTRUCTED WITH NEW DEVELOPMENT A SIX (6) FOOT DIAMETER FLAT TOP WITH 4 TO 1 SIDE SLOPES DOWN TO THE ORIGINAL GROUND. THE ELEVATION OF THE FLAT TOP OF THE MOUND SHALL BE 0.5' FOOT BELOW THE TOP OF THE MANHOLE.
14. GEOTECHNICAL REPORT AVAILABLE UPON REQUEST.
15. CONTRACTOR SHALL LIMIT THE EXTENT OF TRENCH OPENINGS OVERNIGHT AND WEEKENDS TO LESS THAN 50 FEET.
16. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL MANHOLE COVERS.
17. CITY MAINTENANCE OF STORM SEWER ENDS AT RIGHT-OF-WAY OR EASEMENT LINE.
18. ANY SIDEWALK, DRIVE APPROACH, OR STREET PAVEMENT REMOVED TO CONSTRUCT PROJECT MUST HAVE A PAVEMENT CUT PERMIT AND BE REPLACED BY THE CITY CONTRACTOR. PERMITS CAN BE OBTAINED BY CALLING 316-268-4501 OR 316-268-4480.
19. THE INSPECTING FIRM SHALL SUBMIT TO THE CITY STORMWATER MAINTENANCE DIVISION A DIGITAL COPY OF THE CCTV INSPECTION OF THE CONDUITS AND STRUCTURES FOLLOWING CONSTRUCTION. THE DIGITAL FILE INFORMATION SHALL BE COMPATIBLE WITH THE CITY INPUT TEMPLATE. A COPY OF THE TEMPLATE IS AVAILABLE UPON REQUEST AT 316-268-4090.

STORM SEWER IMPROVEMENTS TO SERVE GREEN LANTERN CAR WASH

3323 N ROCK ROAD
PART OF SECTION 31, TOWNSHIP 26 SOUTH, RANGE 2 EAST,
IN THE CITY OF WICHITA, SEDGWICK COUNTY, KANSAS
GARY JANZEN, PE, CITY ENGINEER
PROJECT NUMBER: 0342 PPD OCA 607861



UTILITY AND GOVERNING AGENCY CONTACT INFORMATION	
CITY OF WICHITA, KANSAS	455 N MAIN, WICHITA, KANSAS 67202
CITY HALL	316.942.4482
INSPECTIONS OFFICE	316.660.1840
PUBLIC WORKS AND UTILITIES	316.268.4501
TRAFFIC OPERATIONS	316.268.4501
WICHITA WATER AND SEWER	455 N MAIN, 7TH FLOOR WICHITA, KS 67202
WATER	316.269.4760
WASTEWATER	316.303.8701
GAS AND ENERGY	
KANSAS GAS SERVICE	1021 E 26TH ST N WICHITA, KS 67219 316.832.3123
ELECTRIC	
WESTAR ENERGY	100 N BROADWAY ST WICHITA KANSAS 67202 RESIDENTIAL: 800.383.1183 BUSINESS: 800.401.5666
TELEPHONE SERVICE	
AT&T	1.800.792.2665
CABLE TELEVISION SERVICE	
COX COMMUNICATION	866.961.0027

DEVELOPMENT TEAM CONTACT INFORMATION	
OWNER/DEVELOPER	
DONALD BOOS DIRECTOR OF DEVELOPMENT GREEN LANTERN CARWASH, LLC	500 GRAVES BOULEVARD SALINA, KS 67410 PH: 913.269.4462 FAX: 785.822.4462 donaldb@bluebeacon.com
ARCHITECT/PROJECT LEAD	
WILLIAM K. HARDEN, AIA GASTINGER WALKER HARDEN + BEETRIPLATT BUCK	817 WYANDOTTE KANSAS CITY, MO 64105 PH: 816.569.0814 FAX: 816.421.1262 kharden@designwithinsight.com
CIVIL ENGINEER	
DAVID EICKMAN, P.E. OLSSON ASSOCIATES	1251 NW BRIARCLIFF PARKWAY SUITE 50 KANSAS CITY, MISSOURI 64116 PH: 816.361.1177 FAX: 816.361.1888 deickman@olssonassociates.com

AS BUILTS

Contractor: **McCullough Excavation**
Project Inspector: **Matt Perez**

12/28/2015

KEMILLER ENGINEERING PA
117 E. Lewis, Wichita, KS 67202 (316)264-0242

SHEET LIST	
NO.	TITLE
C1.0	TITLE SHEET
C1.1	GENERAL NOTES
C5.0	OVERALL STORM SEWER PLAN
C5.1	STORM SEWER PLANS & PROFILES
C5.2	STORM SEWER PLANS & PROFILES
C5.3	STORMWATER MANAGEMENT CALCULATIONS
C5.4	STORMWATER MANAGEMENT CALCULATIONS
C8.3	DETAILS
C8.03a	DETAILS
C8.4	DETAILS
EROSION CONTROL PLANS INCLUDED FROM PRIVATE DEVELOPMENT SET	
NO.	TITLE
C7.0	EROSION CONTROL PLAN
C8.5	DETAILS
C8.6	DETAILS
C8.7	DETAILS
C8.8	DETAILS
C8.9	DETAILS

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

ENGINEERING *Rebecca Drindl 10/20/2015*

STORMWATER *Joe Hinkle PE 10/20/15*

NOTE TO CONTRACTORS

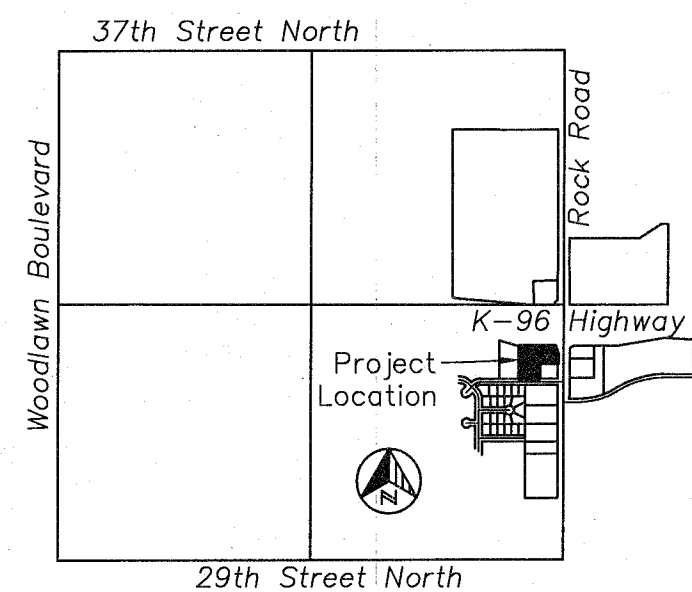
INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER/DEVELOPER. SAID INSPECTION TO BE IN ACCORDANCE WITH THE CITY OF WICHITA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF KANSAS. NO WORK SHALL BE PERFORMED BY THE CONTRACTOR WITHOUT SUCH INSPECTIONS, NOR SHALL ANY WORK BE COMMENCED WITHOUT WRITTEN AUTHORIZATION BY CITY ENGINEERING. ALL CONSTRUCTION MATERIALS SHALL COMPLY WITH THE CURRENT CITY OF WICHITA SPECIFICATIONS AND STANDARDS AND SPECIAL PROVISIONS (ON FILE AND AVAILABLE AT wichita.gov).

AN APPROVED COPY OF THESE PLANS SIGNED BY CITY STAFF ARE REQUIRED ON-SITE.

STORMWATER CERTIFICATION
REDEVELOPMENT

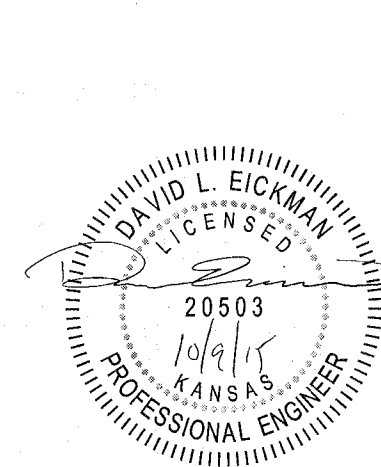
THESE CONSTRUCTION PLANS WERE PREPARED IN ACCORDANCE WITH THE CURRENT STORMWATER MANAGEMENT REGULATIONS AS SET FORTH IN THE CITY OF WICHITA'S STORMWATER MANAGEMENT ORDINANCE 16.32 AND THE POLICIES/GUIDELINES PRESENTED IN THE WICHITA/SEDGWICK COUNTY STORMWATER MANUAL

DISTURBED AREA = 2.44 ACRES
WATER QUALITY TREATMENT: 20% NET REDUCTION IN IMPERVIOUS AREA
DOWNSTREAM CHANNEL PROTECTION: N/A
DETENTION: N/A
THE BMP USED FOR THIS DEVELOPMENT IS REDUCTION IN IMPERVIOUS AREA



Sec. 30, T.12S., R.25E.
VICINITY MAP
Scale: 1" = 2000'

DWS: F:\PROJECTS\15-1062\40-design\AutoCAD\final\plans\Sheets\UD\Private Construction Documents\C_TTL_51062.dwg USER: jnewland 151062_SURV_XB00
DATE: Oct 08, 2015 4:41pm XREFS: C:\PTBLK_51062 DAVID_EICKMAN_PE_KS C:\PBASE_51062 151062_SURV_XTOPO



FOR: **OLSSON ASSOCIATES**
1251 NW Briarcliff Parkway
Kansas City, MO 64116
Phone: 816.361.1177
Fax: 816.361.1888

PLANS PREPARED BY:

SHEET TITLE:
GREEN LANTERN OF WICHITA NORTH
3323 NORTH ROCK ROAD, WICHITA, KS 67226

SUBMITTAL:
JOB NO.:
DATE: 07.24.2015
GL No. 10
FILE NAME:
PLOT DATE:
REVISIONS/DATE:
1-08-26-2015
2-10-08-2015

811
PPD BID SET
KANSAS CALL BEFORE YOU DIG.
1-800-DIG-8111 (1-800-344-7233)

C1.0

GENERAL NOTES

1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-SAFE", (800)344-7233 OR 811 AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES AND FOR BRINGING THE PROJECT TO THE LINES AND GRADES SHOWN HEREIN. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO FULFILL THE PLANS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE EARTHWORK QUANTITIES AND TO ACCOUNT FOR HAUL IN OR HAUL OFF OF MATERIAL AS NECESSARY TO MEET THE LINES AND GRADES OF THE PLANS EVEN IF QUANTITY ESTIMATES ARE SHOWN WITHIN THESE DOCUMENTS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR IMPORT OR EXPORT OF MATERIAL OR FOR ADJUSTMENTS TO QUANTITY ESTIMATES.
5. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF WICHITA, KS, EXCEPT WHERE SHOWN OTHERWISE. NOTIFY ENGINEER OF DISCREPANCIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS, PAYING ALL FEES AND FOR OTHERWISE COMPLYING WITH ALL APPLICABLE REGULATIONS GOVERNING THE WORK.
7. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF KANSAS STATE LAW WHICH REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM UTILITY COMPANIES.
8. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL NOTIFY ALL THOSE COMPANIES WHICH HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PERFORMED.
9. THE CONTRACTOR SHALL PROTECT ALL MAJOR TREES FROM DAMAGE. NO TREE SHALL BE REMOVED WITHOUT PERMISSION OF THE OWNER, UNLESS SHOWN OTHERWISE ON THESE PLANS.
10. CLEARING AND GRUBBING OPERATIONS AND DISPOSAL OF ALL DEBRIS THEREFROM SHALL BE PERFORMED BY THE CONTRACTOR IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
11. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
12. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE APPLICABLE UTILITY COMPANIES.
13. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED.
14. ALL DISTURBED AREAS SHALL BE LANDSCAPED, SEEDED OR SODDED, AS SHOWN ON THE LANDSCAPE PLAN.
15. HANDICAP PARKING STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA STANDARDS AND SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION. ACCESSIBLE SIDEWALKS HAVE A MAXIMUM CROSS SLOPE OF 2 PERCENT AND A MAXIMUM LONGITUDINAL SLOPE OF 5 PERCENT.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL OF SURFACE EROSION DURING CONSTRUCTION AND UNTIL THE OWNER ACCEPTS THE WORK AS COMPLETE. EROSION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, THE SILT FENCES AND GRAVEL FILTER BAGS SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE FOR THE DURATION OF THE SITE IMPROVEMENTS.
17. ALL HDPE PIPE SHALL BE ADS (N-12) OR APPROVED EQUAL, AND CONFORM TO AASHTO M294 SPECIFICATIONS. ALL PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
18. IF PRECAST CONCRETE STORM SEWER STRUCTURES ARE TO BE USED ON THIS PROJECT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND HAVE THEM APPROVED BY THE ENGINEER PRIOR TO FABRICATION OF THE STRUCTURES. FAILURE TO DO SO SHALL BE CAUSE FOR REJECTION.
19. EXISTING TOPSOIL SHALL BE STRIPPED TO A POINT WHERE ALL VEGETATION IS REMOVED. REFER TO THE GEOTECHNICAL REPORT AND ALL ADDENDUMS FOR ADDITIONAL REQUIREMENTS.
20. THE CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED.
21. ALL WATER LINES SHALL BE INSTALLED PER CITY STANDARDS. ALL WATER LINES SHALL BE A MINIMUM OF 42 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN HEREIN.

22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS. ANY BOUNDARY CORNER AND/OR SECTION CORNER DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A LAND SURVEYOR LICENSED IN THE STATE OF KANSAS, AT THE CONTRACTOR'S EXPENSE.
23. NO FEDERALLY OWNED MAILBOX MAY BE DISTURBED. THE CONTRACTOR SHALL GIVE AT LEAST TWENTY-FOUR (24) HOURS ADVANCE NOTICE TO THE MANAGER OF DELIVERY AND COLLECTIONS. TAMPERING WITH FEDERAL MAIL FACILITIES MAY SUBJECT THE CONTRACTOR TO PROSECUTION BY THE FEDERAL GOVERNMENT.
24. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE FOR SURFACE OF PAVEMENT, TOP OF SIDEWALKS AND CURBS, TOP OF FLOOR SLABS, ETC. REFER TO TYPICAL SECTIONS FOR PAVING, SLAB AND AGGREGATE BASE THICKNESS TO DEDUCT FOR GRADING LINE ELEVATIONS.
25. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
26. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS WHEN FINISH LANDSCAPE MATERIALS ARE IN PLACE.
27. ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND BE AIR ENTRAINED. FLYASH IS NOT A SUITABLE REPLACEMENT FOR PORTLAND CEMENT.
28. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND.
29. THE CONTRACTOR SHALL MAKE HIS OWN ASSUMPTIONS ON THE LOCATION AND CONSISTENCY OF ANY EXISTING ROCK LAYERS UNDERLYING THE PROJECT SITE. ALL ROCK EXCAVATION AND REMOVAL SHALL BE INCLUDED IN THE CONTRACTORS' BID.
30. SITE PREPARATION, GRADING AND EXCAVATION PROCEDURES SHALL CONFORM TO THE RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT AND ALL ADDENDUMS.
31. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
 - A. CONTROL JOINTS SPACED AT INTERVALS NOT GREATER THAN 12 FEET AND TOOLED TO 1/3 THE SLAB THICKNESS.
 - B. CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE.
 - C. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 1/2" NONEXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER-BOARD, AND WITH A THICKENED EDGE, INCREASED BY 20 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET.
 - D. ALL EXPANSION JOINTS SHALL BE FILLED AND SEALED WITH A PLASTIC JOINT SEALANT MATERIAL.
32. CONTRACTOR TO FIELD VERIFY ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES AND INFRASTRUCTURE PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS.
33. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS NOT SHOWN ON PLANS. CONTRACTOR SHALL INSTALL NECESSARY CONDUIT PRIOR TO PAVEMENT INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION SCOPE WITH SERVICE PROVIDER.
34. BY ACCEPTING AND UTILIZING ANY ELECTRONIC FILE OF ANY DRAWING, REPORT OR DATA TRANSMITTED BY OLSSON ASSOCIATES (OA), THE RECIPIENT AGREES FOR ITSELF, ITS SUCCESSORS, ASSIGNS, INSURERS AND ALL THOSE CLAIMING UNDER OR THROUGH IT, THAT BY USING ANY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE, ALL USERS AGREE TO BE BOUND BY THE FOLLOWING TERMS. ALL OF THE INFORMATION CONTAINED IN THIS ELECTRONIC FILE IS THE WORK PRODUCT AND INSTRUMENT OF SERVICE OF OA, WHO SHALL BE DEEMED THE AUTHOR, AND SHALL RETAIN ALL COMMON LAW, STATUTORY LAW AND OTHER RIGHTS, INCLUDING COPYRIGHTS, UNLESS THE SAME HAVE PREVIOUSLY BEEN TRANSFERRED IN WRITING TO THE RECIPIENT. THE INFORMATION CONTAINED IN THE ELECTRONIC FILE IS PROVIDED FOR THE CONVENIENCE OF THE RECIPIENT AND IS PROVIDED IN "AS IS" CONDITION. THE RECIPIENT IS AWARE THAT DIFFERENCES MAY EXIST BETWEEN THE ELECTRONIC FILES AND THE PRINTED HARD-COPY ORIGINAL, SIGNED AND SEALED DRAWINGS OR REPORTS. IN THE EVENT OF A CONFLICT BETWEEN THE SIGNED AND SEALED ORIGINAL DOCUMENTS PREPARED BY OA AND THE ELECTRONIC FILES TRANSFERRED HERewith, THE SIGNED AND SEALED ORIGINAL DOCUMENTS SHALL GOVERN. OA SPECIFICALLY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ELECTRONIC FILES. IT SHALL BE THE RECIPIENT'S RESPONSIBILITY TO CONFIRM THE ACCURACY OF THE INFORMATION CONTAINED IN THE ELECTRONIC FILE AND THAT IF ACCURATELY REFLECTS THE INFORMATION NEEDED BY THE RECIPIENT. THE RECIPIENT SHALL NOT RETRANSMIT THE ELECTRONIC FILE, OR ANY PORTION THEREOF, WITHOUT INCLUDING THIS DISCLAIMER AS PART OF ANY SUCH TRANSMISSION. IN ADDITION, THE RECIPIENT AGREES, TO THE FULLEST EXTENT PERMITTED BY LAW, TO INDEMNIFY AND HOLD HARMLESS OA, ITS OFFICERS, DIRECTORS, EMPLOYEES AND SUBCONSULTANTS AGAINST ANY AND ALL DAMAGES, LIABILITIES, CLAIMS OR COSTS, INCLUDING REASONABLE ATTORNEY'S AND EXPERT WITNESS FEES AND DEFENSE COSTS, ARISING FROM ANY CHANGES MADE BY ANYONE OTHER THAN OA OR FROM ANY REUSE OF THE ELECTRONIC FILES WITHOUT THE PRIOR WRITTEN CONSENT OF OA.

35. DESIGN PROFESSIONAL SHALL REVIEW SHOP DRAWINGS OR SAMPLES FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPTS ON THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS, AND SHALL NOT EXTEND TO MEANS OR METHODS OF CONSTRUCTION. THE DESIGN PROFESSIONAL'S REVIEW SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ANY VARIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS UNLESS CONTRACTOR HAS IN WRITING CALLED DESIGN PROFESSIONAL'S ATTENTION TO EACH SUCH VARIATION AT THE TIME OF SUBMISSION, AND DESIGN PROFESSIONAL HAS GIVEN WRITTEN APPROVAL OF EACH SUCH VARIATION BY SPECIFIC WRITTEN NOTATION THEREOF INCORPORATED INTO OR ACCOMPANYING THE SHOP DRAWING OR SAMPLE; NOR WILL ANY APPROVAL BY THE DESIGN PROFESSIONAL RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS WITH CONFORMANCE TO CONTRACT DOCUMENTS.

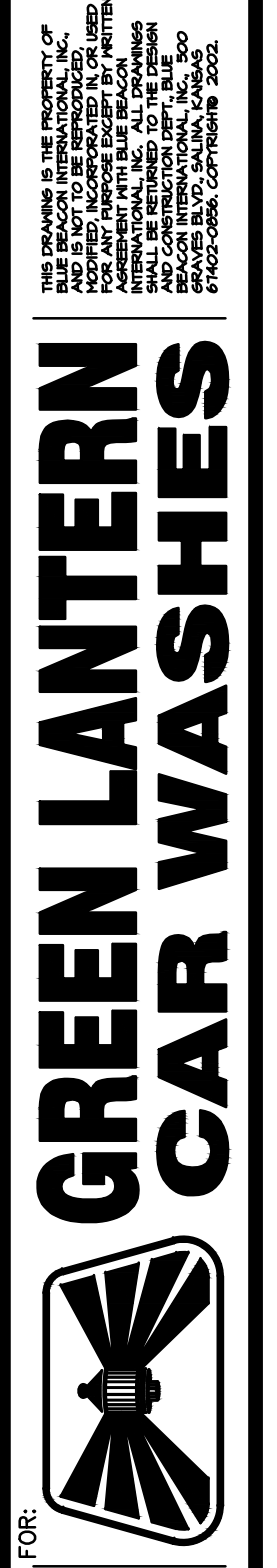
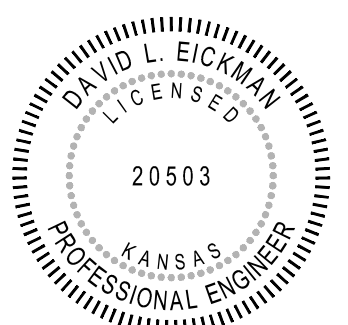
- BEFORE SUBMITTING EACH SHOP DRAWING OR SAMPLE, CONTRACTOR SHALL HAVE DETERMINED AND VERIFIED:
- a. ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, SPECIFIED PERFORMANCE CRITERIA, INSTALLATION REQUIREMENTS, MATERIALS, CATALOG NUMBERS AND SIMILAR INFORMATION WITH RESPECT THERETO;
 - b. ALL MATERIALS WITH RESPECT TO INTENDED USE, FABRICATION, SHIPPING, HANDLING, STORAGE, ASSEMBLY AND INSTALLATION PERTAINING TO THE PERFORMANCE OF THE WORK;
 - c. ALL INFORMATION RELATIVE TO MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENT THERETO;
 - d. CONTRACTOR SHALL ALSO HAVE REVIEWED AND COORDINATED EACH SHOP DRAWING OR SAMPLE WITH OTHER SHOP DRAWINGS AND SAMPLES, AND WITH THE REQUIREMENTS OF THE WORK AND THE CONTRACT DOCUMENTS.

ALL SUBMITTED SHOP DRAWINGS SHALL BEAR A STAMP OR SPECIFIC WRITTEN INDICATION AND SIGNATURE THAT CONTRACTOR HAS FULLY REVIEWED THE SUBMISSION AND CHECKED ALL DATA AND DETAILS. BY CONTRACTOR SIGNATURE, CONTRACTOR CERTIFIES SHOP DRAWING CONFORMANCE AND ACCURACY TO THE CONTRACT DOCUMENTS.

36. ANY CONTRACTOR BIDDING ANY PORTION OF THIS WORK SHALL HAVE IN HIS OR HER POSSESSION A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND BE FAMILIAR WITH ALL SCOPES OF WORK AND TRADES TO UNDERSTAND THEIR INTERACTIONS.

PAVEMENT MARKING NOTES

1. PAVEMENT MARKING PAINT: LATEX, WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952 WITH DRYING TIME OF LESS THAN 45 MINUTES. COLOR: AS INDICATED ON DRAWINGS.
2. DO NOT APPLY PAVEMENT MARKING PAINT UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT.
3. ALLOW PAVING TO AGE FOR 24 HOURS BEFORE MARKING. SWEEP AND CLEAN SURFACE.
4. APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE MARKINGS WITH UNIFORM STRAIGHT EDGES. PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS.
5. THIS WORK SHALL CONSIST OF FURNISHING AND APPLYING PAINT ON PAVEMENT SURFACES, IN TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS, CROSSWALKS, AND OTHER DETAIL PAVEMENT MARKINGS, IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS.
6. DETAILS NOT SHOWN SHALL BE IN CONFORMITY WITH THE STATE STANDARDS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SIMILAR REQUIREMENTS ESTABLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
7. ALL PARKING LOT STRIPPING SHALL BE SINGLE LINE 4" WIDE AS PER THE SITE PLANS.
8. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS. USE SHERWIN WILLIAMS PROMAR TRAFFIC MARKING PAINT. COLORS TO MATCH THE ORIGINAL COLOR OF THE EXISTING INSTALLATIONS. USE FLAT BLACK, WHITE OR YELLOW, WHERE APPROPRIATE. UNLESS OTHERWISE DIRECTED, USE THE FOLLOWING: A. BLACKTOP OR BITUMINOUS ASPHALT PAVING: USE YELLOW COLOR. B. PORTLAND CEMENT CONCRETE PAVING: USE YELLOW COLOR. C. HANDICAPPED ACCESSIBLE PARKING AND ENTRYWAYS: USE YELLOW COLOR WITH WHITE STRIPES.
9. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN). USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.
10. DETAIL PAVEMENT MARKINGS SHALL BE THAT MARKING, EXCLUSIVE OF ACTUAL TRAFFIC LANE MARKING, AT EXIT AND ENTRANCE ISLANDS AND TURNOUTS, ON CURBS, AT CROSSWALKS, AT PARKING BAYS AND AT SUCH OTHER LOCATIONS AS SHOWN. HANDICAPPED PARKING SPACES SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH TRUE, SHARP EDGES AND ENDS.
11. CONTRACTOR TO PROVIDE ALLOWANCE FOR INSTALLATION OF FIRE DEPARTMENT SIGNAGE @ 150' INTERVALS AND CURB PAINTING W/ "NO PARKING-FIRE LANE" INDICATION AROUND PERIMETER CURB IN FRONT OF ALL BUILDINGS WHERE PARKING AND FUTURE PARKING DOES NOT EXIST. CONTRACTOR TO MEET WITH FIRE DEPARTMENT TO DETERMINE FINAL LOCATION OF ALL MARKINGS. CONTRACTOR TO PROVIDE CREDIT BACK AND SHALL RECEIVE CREDIT FOR SIGNIFICANT DEVIATIONS TO THIS ALLOWANCE.



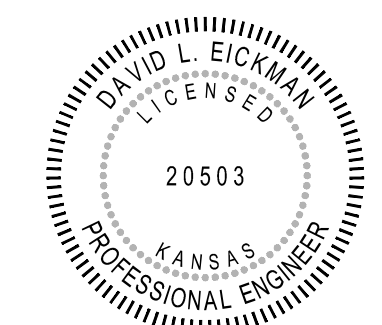
GENERAL NOTES
GREEN LANTERN OF WICHITA NORTH
 3323 NORTH ROCK ROAD, WICHITA, KS 67226

SHEET TITLE: GENERAL NOTES
 SUBMITTAL: 07/24/2015
 JOB NO.:
 DATE: 07/24/2015
 FILE NAME: GL No. 10
 PLOT DATE:
 REVISIONS/DATE:

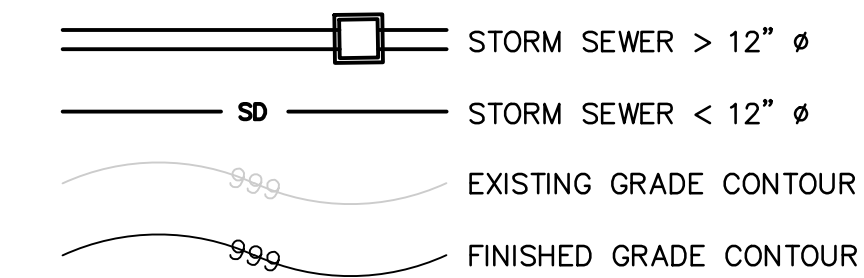
K-96 HWY

!! CAUTION !!
UNDERGROUND POWER

EX LINE A STUB



STORM SEWER PLAN LEGEND



KEYNOTES

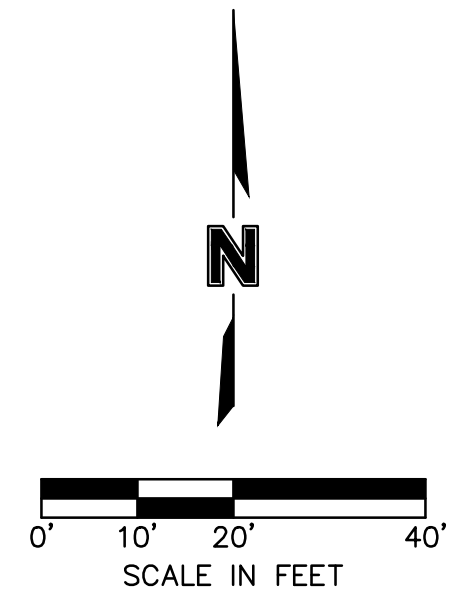
STORM SEWER

- SEE SHEET C5.1 FOR PLANS & PROFILES OF LINES A, B, AND C
SEE SHEET C5.2 FOR PLANS & PROFILES OF LINES D AND E
- D01 TEE INTO STORM LINE A AND INSTALL 91 LF OF 8" HDPE PIPE @ 3.94%
INV. EL. @ TEE=1387.58
INV. EL. @ TRENCH DRAIN=1391.00
 - D02 INSTALL 16 LF OF TRENCH DRAIN SLOPED AT MIN. 1.00% PER DETAIL ON SHEET C8.4
 - D03 CONNECT TO CURB INLET C1 AND INSTALL 10 LF OF 12" HDPE @ 1.97%
INV. EL. @ INLET=1388.70
INV. EL. @ WYE=1388.90
 - D04 INSTALL 12"x12"x12" WYE AND INSTALL 56 LF OF 8" HDPE PIPE @ 1.97% WITH 8"x12" REDUCER AT WYE
INV. EL. @ WYE=1388.91
INV. EL. @ BUILDING STUB=1390.00
 - D05 INSTALL 76 LF OF 6" HDPE PIPE @ 1.42% WITH 6"x12" REDUCER AT WYE
INV. EL. @ WYE=1388.90
INV. EL. @ BUILDING STUB=1390.00
 - D06 UTILITY CROSSING
INV. EL. SANITARY=1387.90
INV. EL. STORM=1389.48
 - D07 UTILITY CROSSING
INV. EL. SANITARY=1386.96
INV. EL. STORM=1389.55
 - D08 UTILITY CROSSING
FL EL. WATER=1389.21±
INV. EL. STORM=1389.10
 - D09 UTILITY CROSSING
FL EL. WATER=1389.15±
INV. EL. STORM=1389.11
 - D10 SEE MEP PLANS FOR CONNECTION TO BUILDING

SEE SHEET C5.1 FOR PLANS & PROFILES OF LINES A, B, AND C
SEE SHEET C5.2 FOR PLANS & PROFILES OF LINES D AND E

N. ROCK RD

W 32ND ST



C5.0

DAVID_EICKMAN_PE_KS

C_PSTRM_51062

C_PTLBK_51062

C_PBASE_51062

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USER: newwand

DATE: Sep 15, 2015 1:52pm

DWG: F:\PROJECTS\015-1062\40-design\AutoCAD\final_plans\LDVP\Private Construction Documents\C_STM_51062.dwg

DATE: Sep 15, 2015 1:52pm

DATE: Sep 15, 2015 1:52pm

SHEET TITLE:

**OVERALL STORM SEWER PLAN
GREEN LANTERN OF WICHITA NORTH**
3323 NORTH ROCK ROAD, WICHITA, KS 67226

SUBMITTAL:

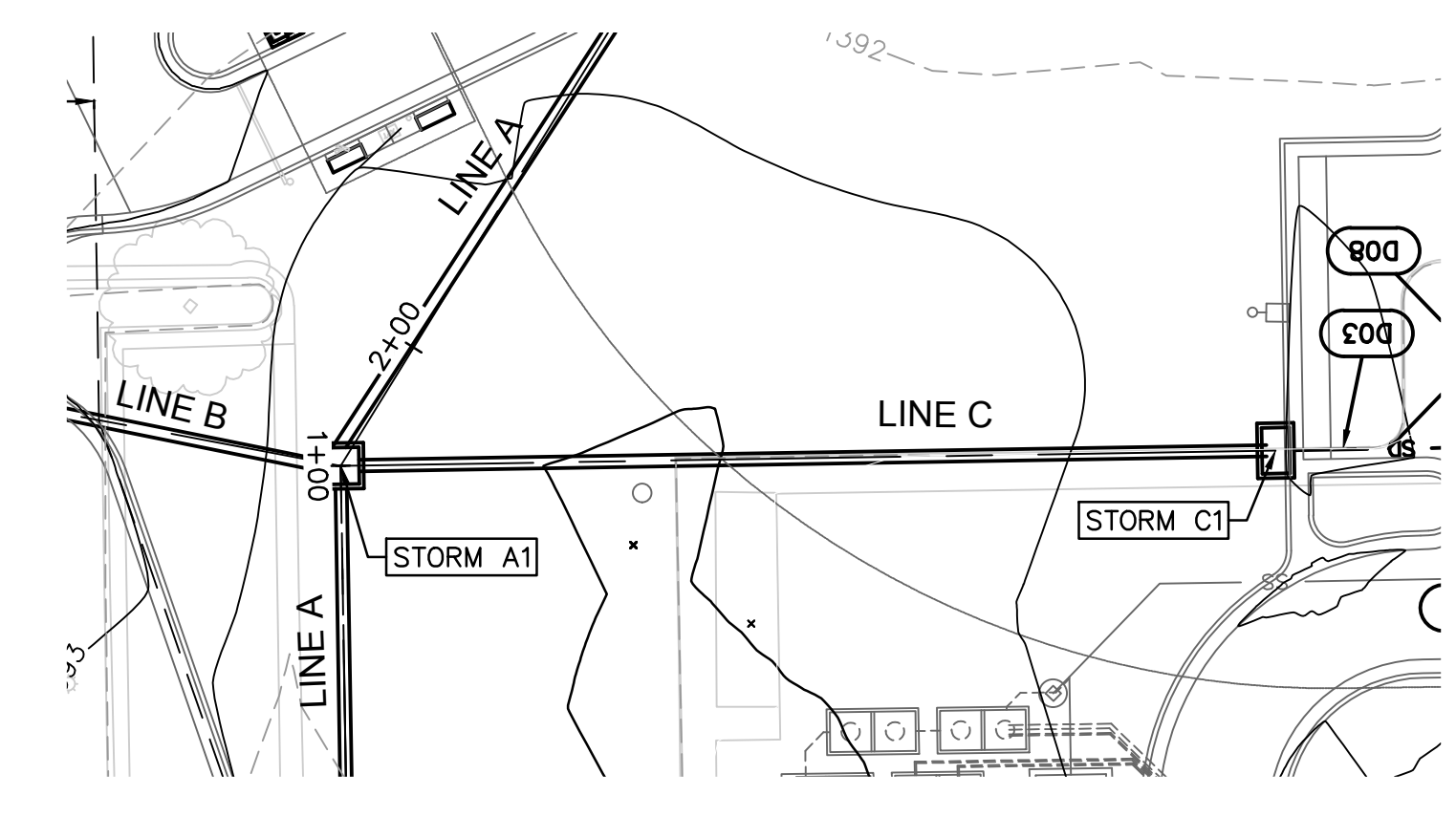
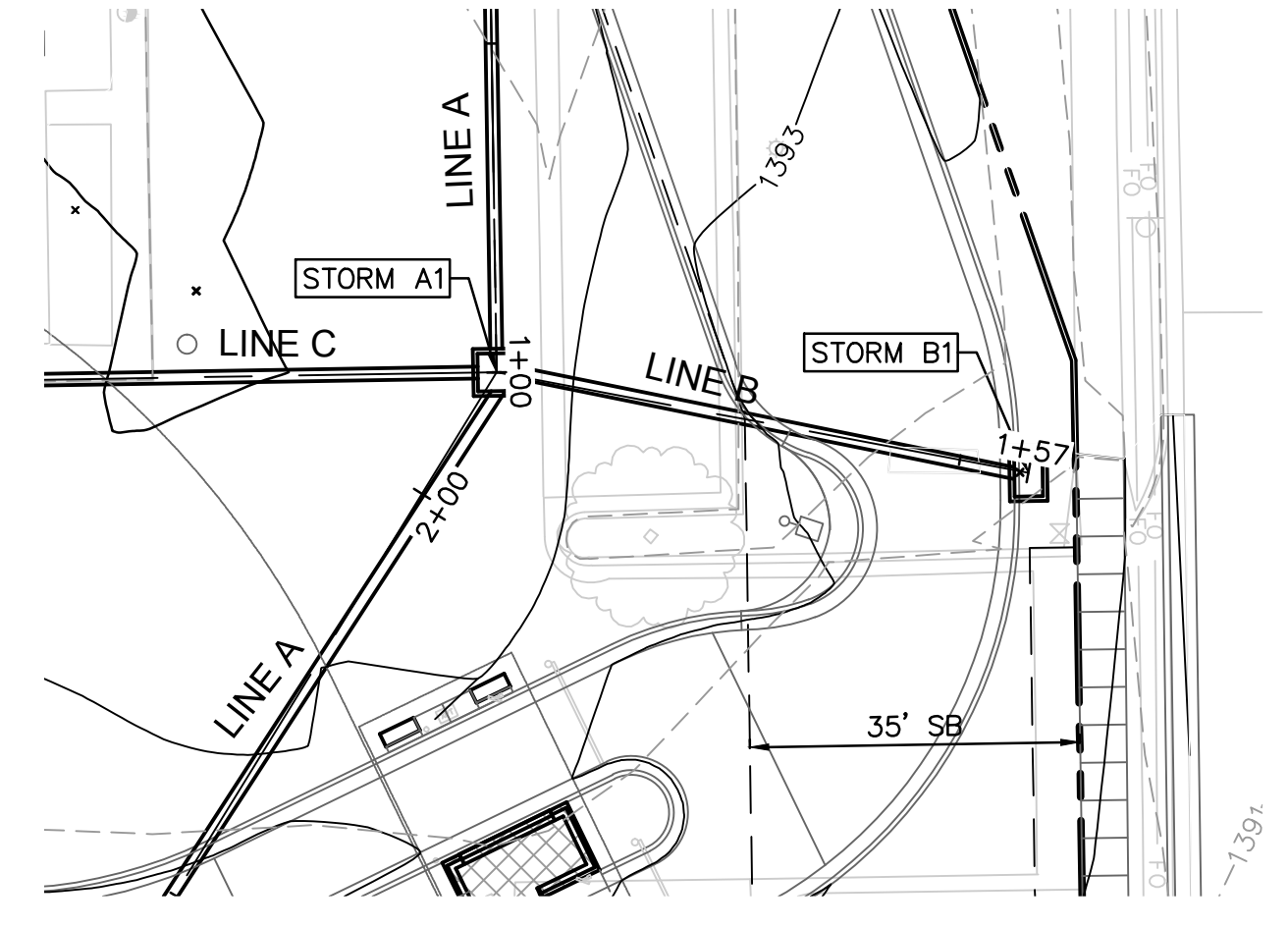
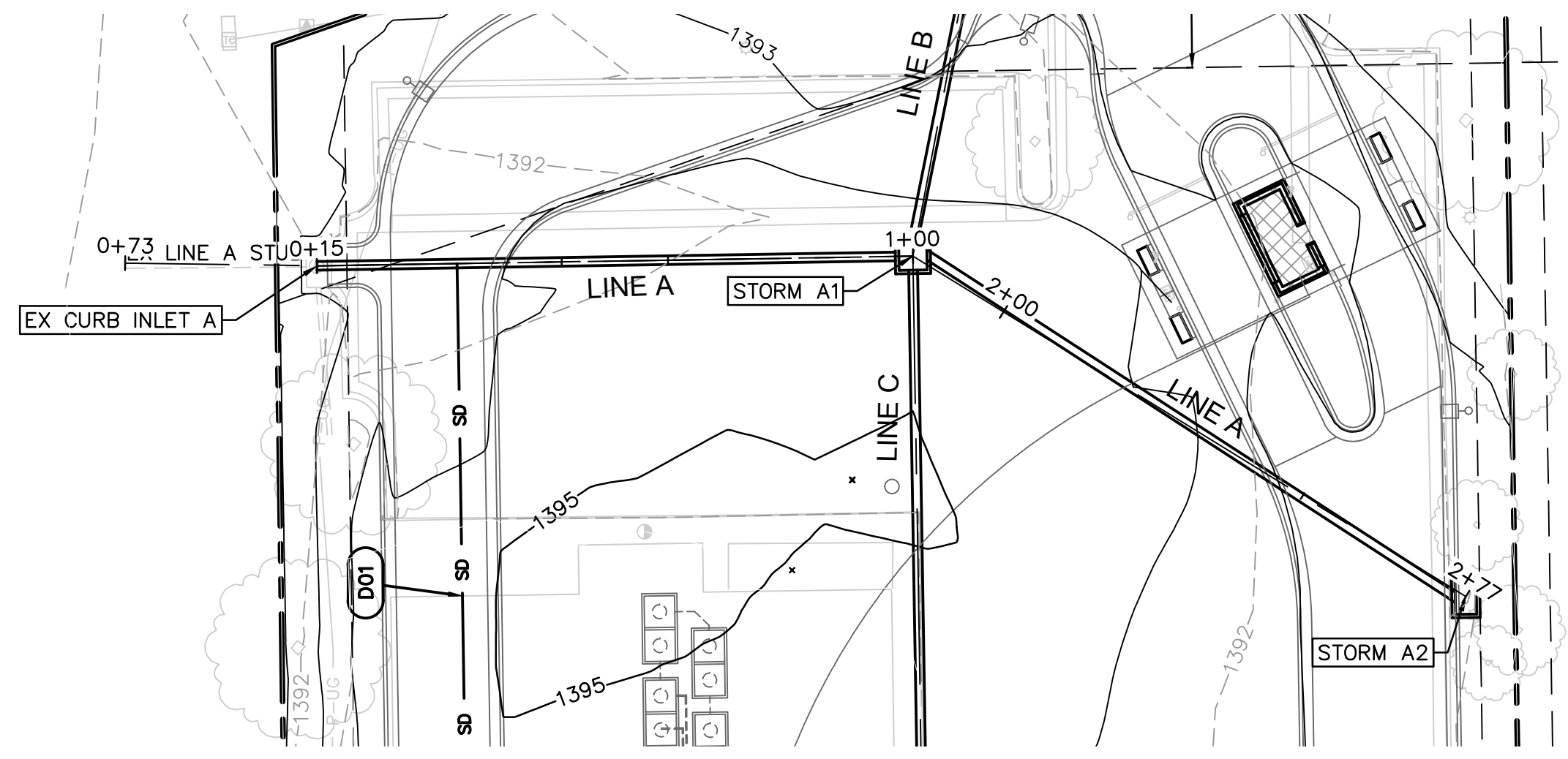
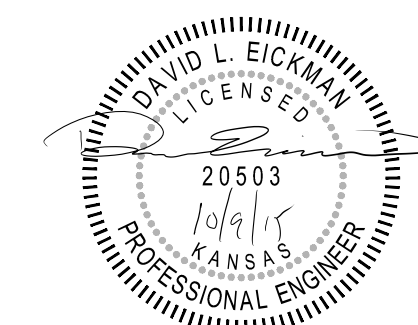
JOB NO.:
FILE NAME:

PLOT DATE:

REVISIONS/DATE:

DATE: 07.24.2015

CL No. 10



STORM SEWER	
STRUCTURE	DESCRIPTION
EX CURB INLET A	STA: 1+00.00 STORM LINE A CORE EXISTING STRUCTURE FOR NEW CONNECTION AND GROUT FOR WATER TIGHT SEAL AND REBUILD INVERT TO DRAIN
STORM A1	STA: 1+84.87 STORM LINE A INSTALL 4'X4' JUNCTION BOX SEE DETAIL ON SHEET C8.4
STORM A2	STA: 2+77.30 STORM LINE A INSTALL 3'X5' TYPE 1 CURB INLET SEE DETAIL ON SHEET C8.3

STORM SEWER	
STRUCTURE	DESCRIPTION
STORM B1	STA: 1+57.41 STORM LINE B INSTALL 3'X5' TYPE 1 CURB INLET SEE DETAIL ON SHEET C8.3

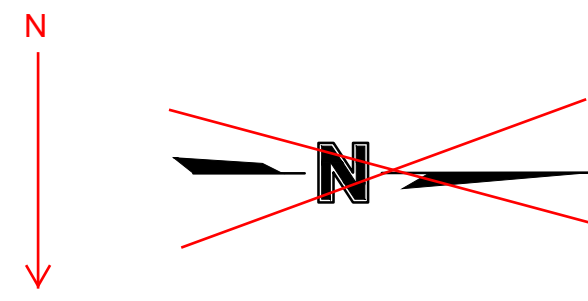
STORM SEWER	
STRUCTURE	DESCRIPTION
STORM C1	STA: 2+01.85 STORM LINE C INSTALL 3'X5' TYPE 1 CURB INLET SEE DETAIL ON SHEET C8.3

AS BUILTS

Contractor: **McCullough Excavation**
 Project Inspector: **Matt Perez**

12/28/2015

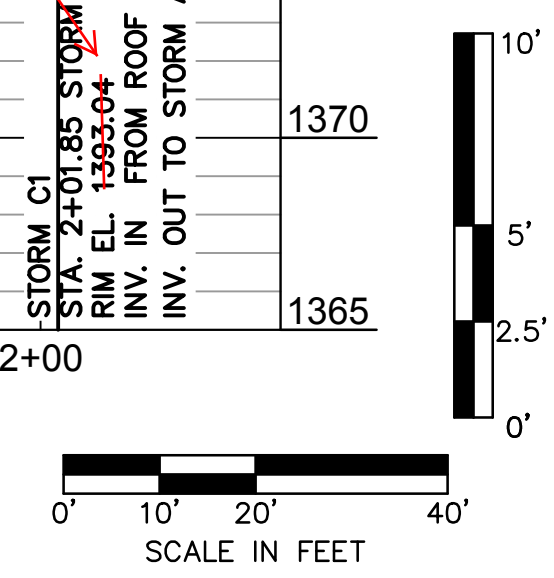
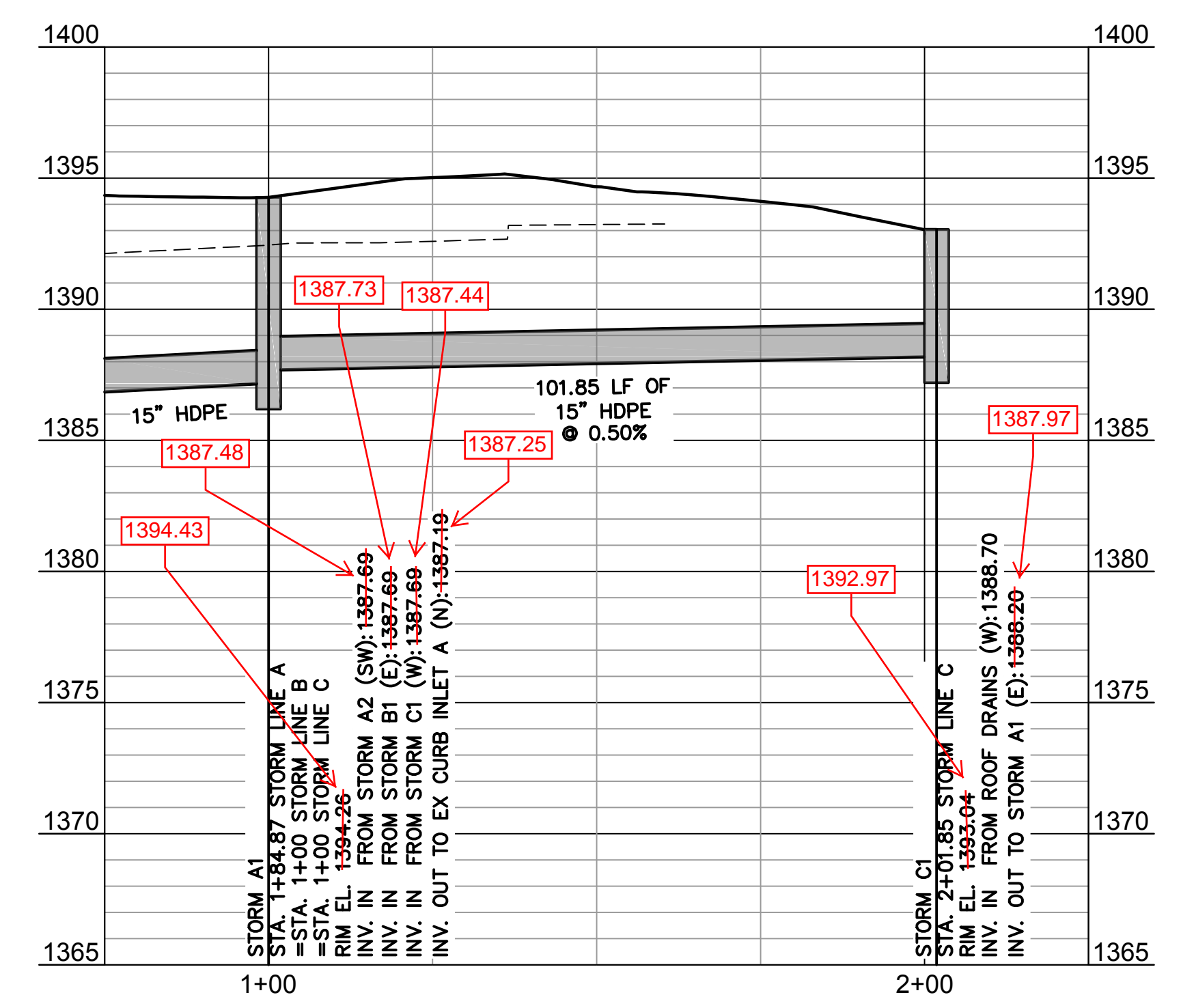
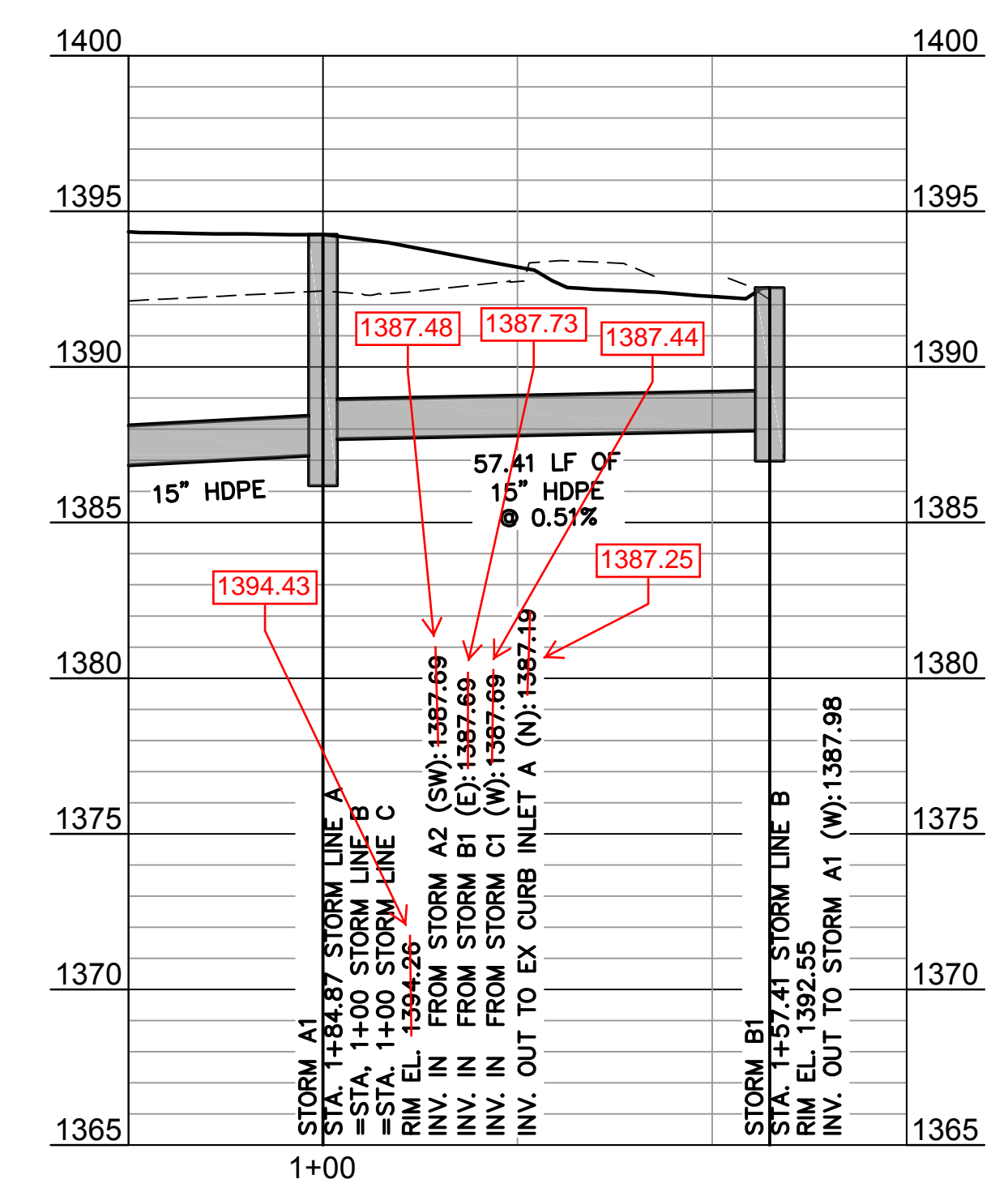
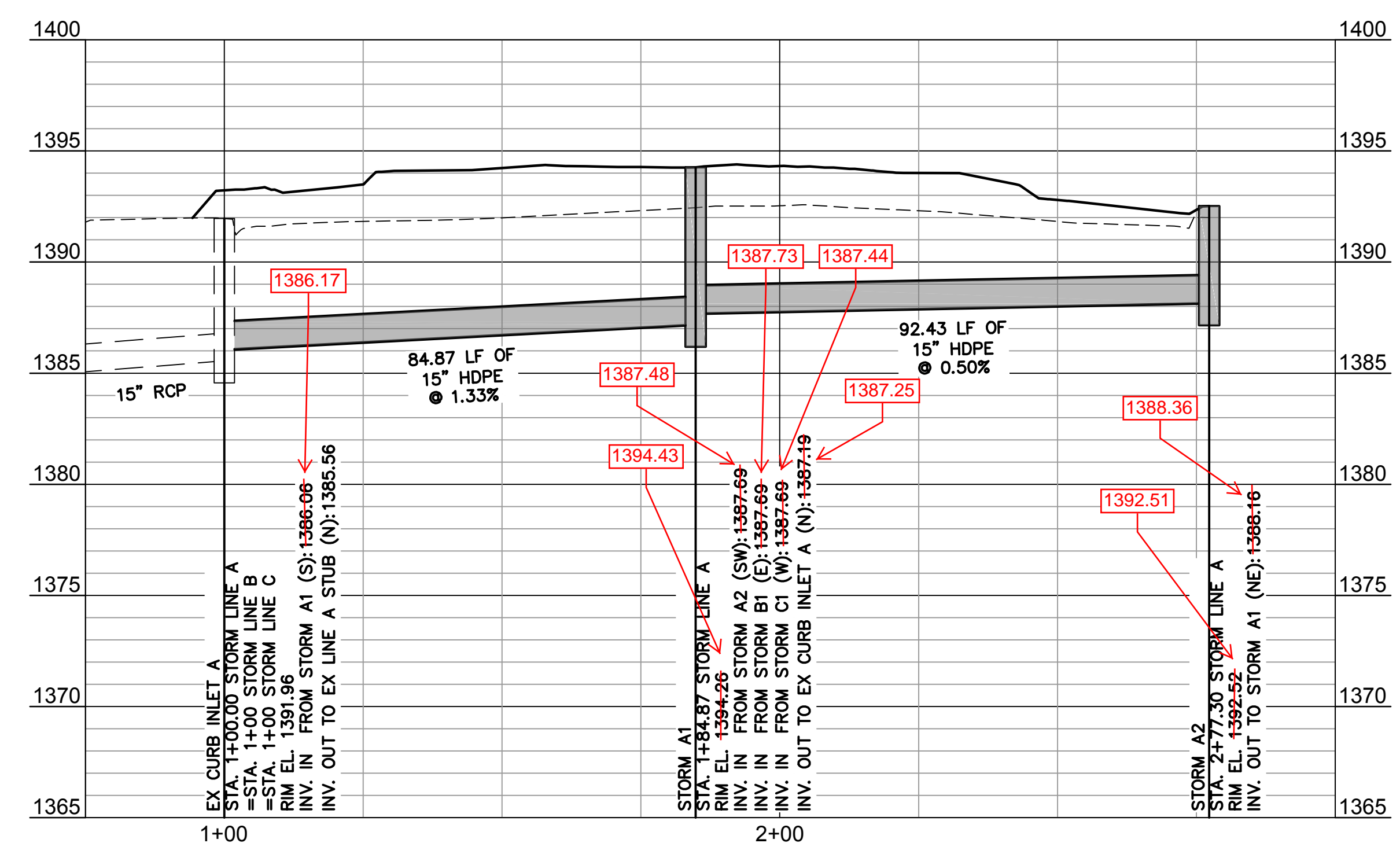
KEMILLER ENGINEERING PA
 117 E. Lewis, Wichita, KS 67202 (316)264-0242

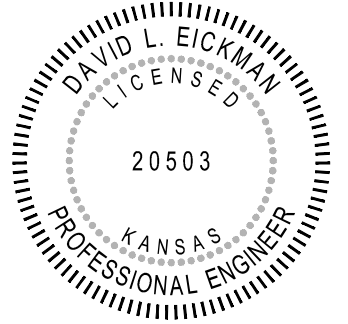


STORM LINE A

STORM LINE B

STORM LINE C

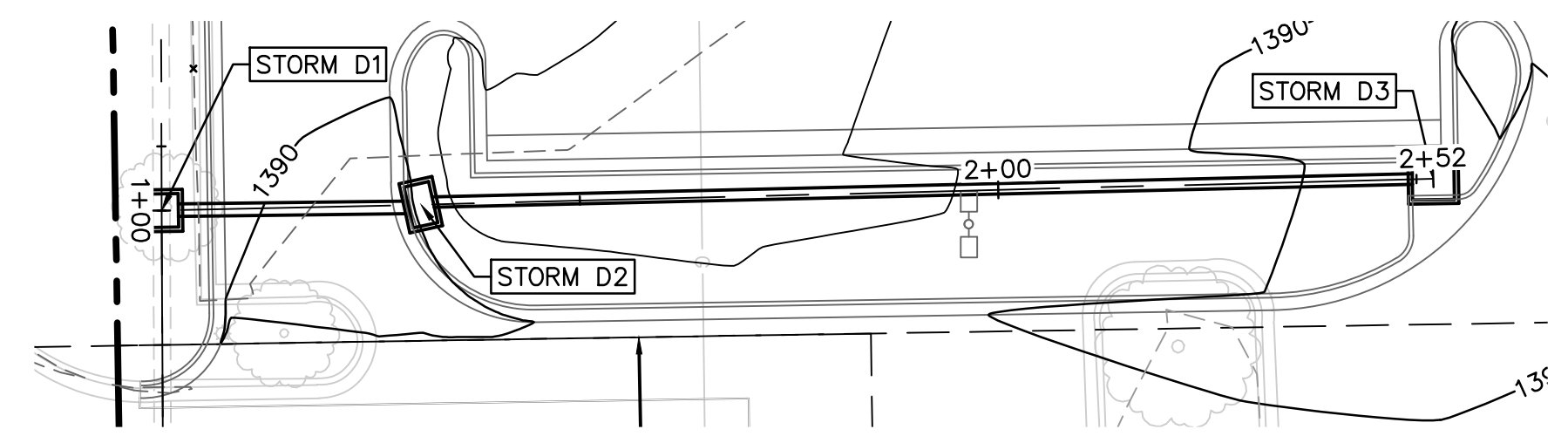




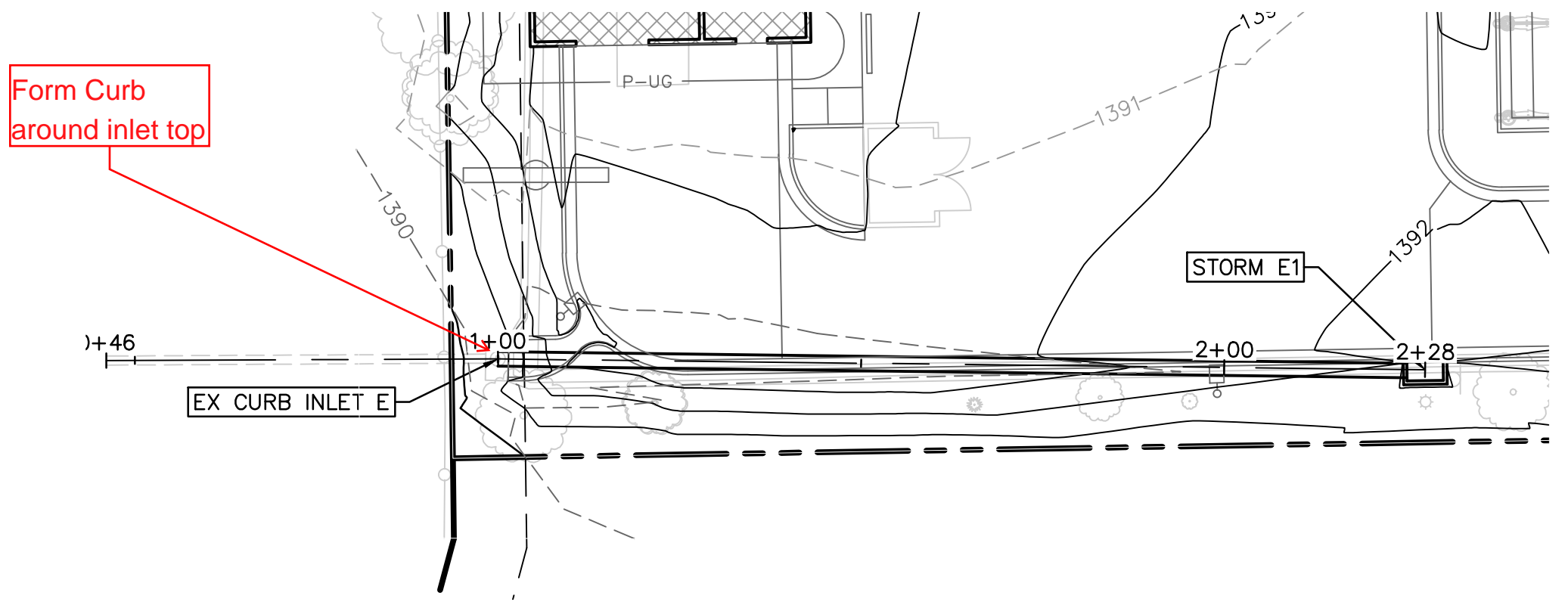
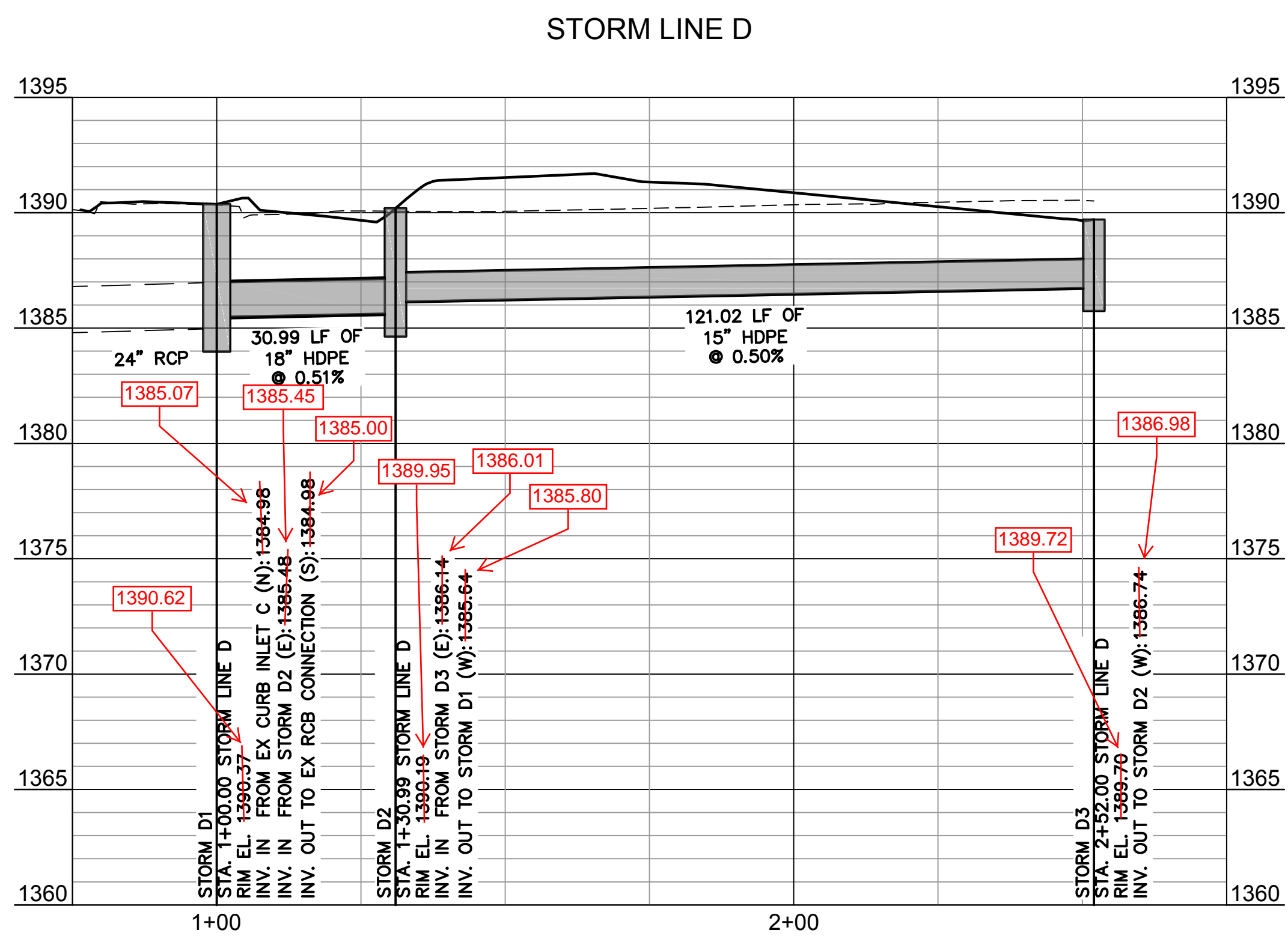
AS BUILTS

Contractor: McCullough Excavation	Project Inspector: Matt Perez
KEMILLER ENGINEERING PA	
117 E. Lewis, Wichita, KS 67202 (316)264-0242	

12/28/2015



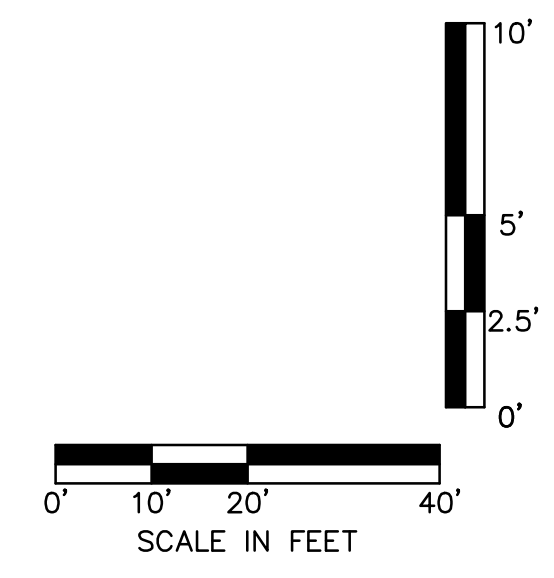
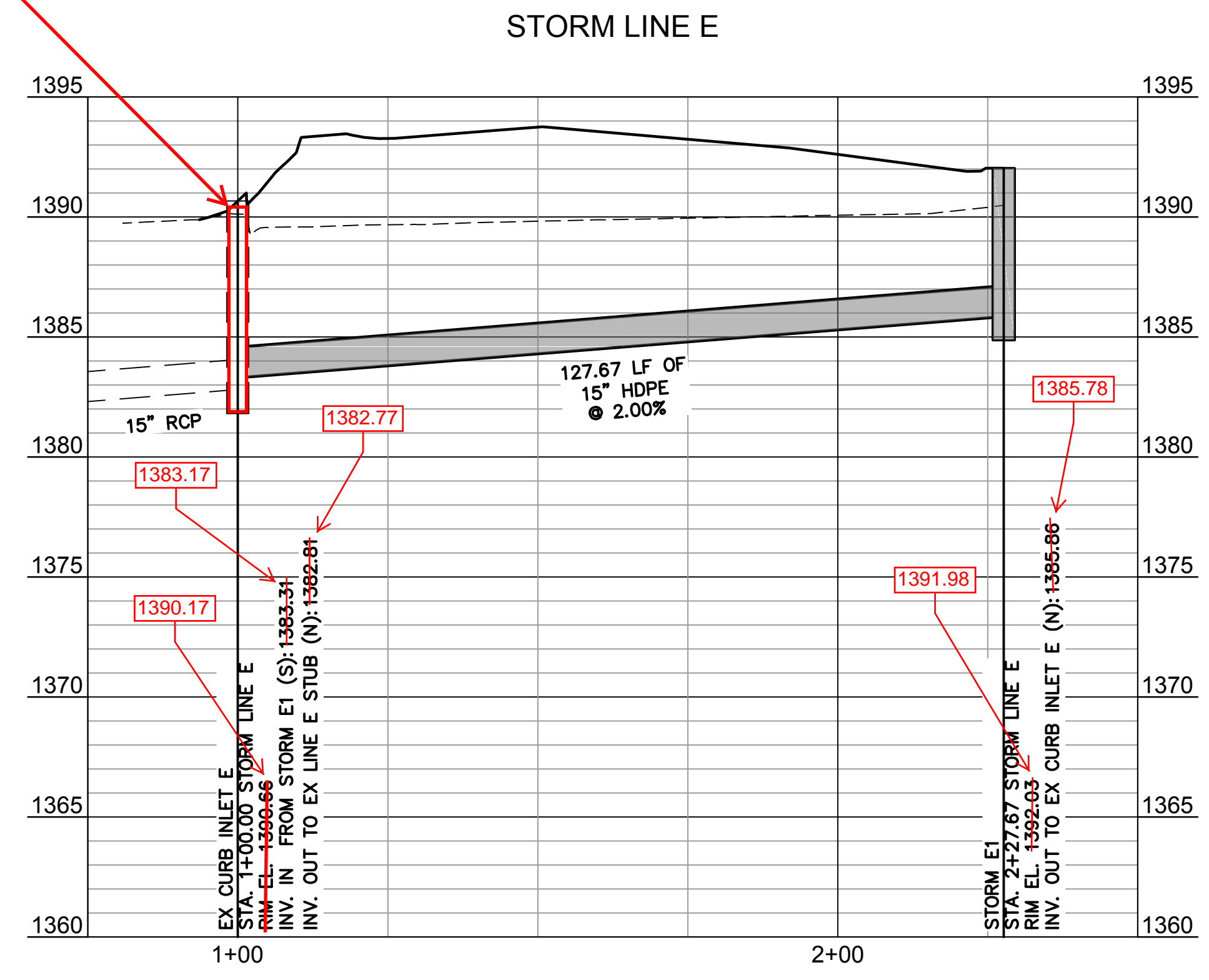
STORM SEWER	
STRUCTURE	DESCRIPTION
STORM D1	STA: 1+00.00 STORM LINE D INSTALL 4'X4' JUNCTION BOX DOGHOUSE OVER EXISTING PIPE SEE DETAIL ON SHEET C8.05
STORM D2	STA: 1+30.99 STORM LINE D INSTALL 3'X5' TYPE 1 CURB INLET SEE DETAIL ON SHEET C8.3
STORM D3	STA: 2+52.00 STORM LINE D INSTALL 5'X5' TYPE 1 CURB INLET SEE DETAIL ON SHEET C8.3 OPEN ON BOTH NORTH AND SOUTH FACES



STORM SEWER	
STRUCTURE	DESCRIPTION
EX CURB INLET E	STA: 1+00.00 STORM LINE E CORE EXISTING STRUCTURE FOR NEW CONNECTION AND GROUT FOR WATER TIGHT SEAL REPLACE TOP OF STRUCTURE AND ADJUST TO SLOPE AS SHOWN ON SHEET C4.0 AND REPAIR INVERT TO DRAIN SEE DETAIL ON SHEET C8.04
STORM E1	STA: 2+27.67 STORM LINE E INSTALL 3'X5' TYPE 1 CURB INLET SEE DETAIL ON SHEET C8.3



Construct 4' Dia Manhole
w/ Grated Lid
Rim Elev. = 1390.16



FOR: **OLSSON ASSOCIATES**

PLANS PREPARED BY: **OLSSON ASSOCIATES**

SHEET TITLE: **STORM SEWER PLANS & PROFILES
GREEN LANTERN OF WICHITA NORTH**
3323 NORTH ROCK ROAD, WICHITA, KS 67226

SUBMITTAL: _____ DATE: 07/24/2015

JOB NO.: _____

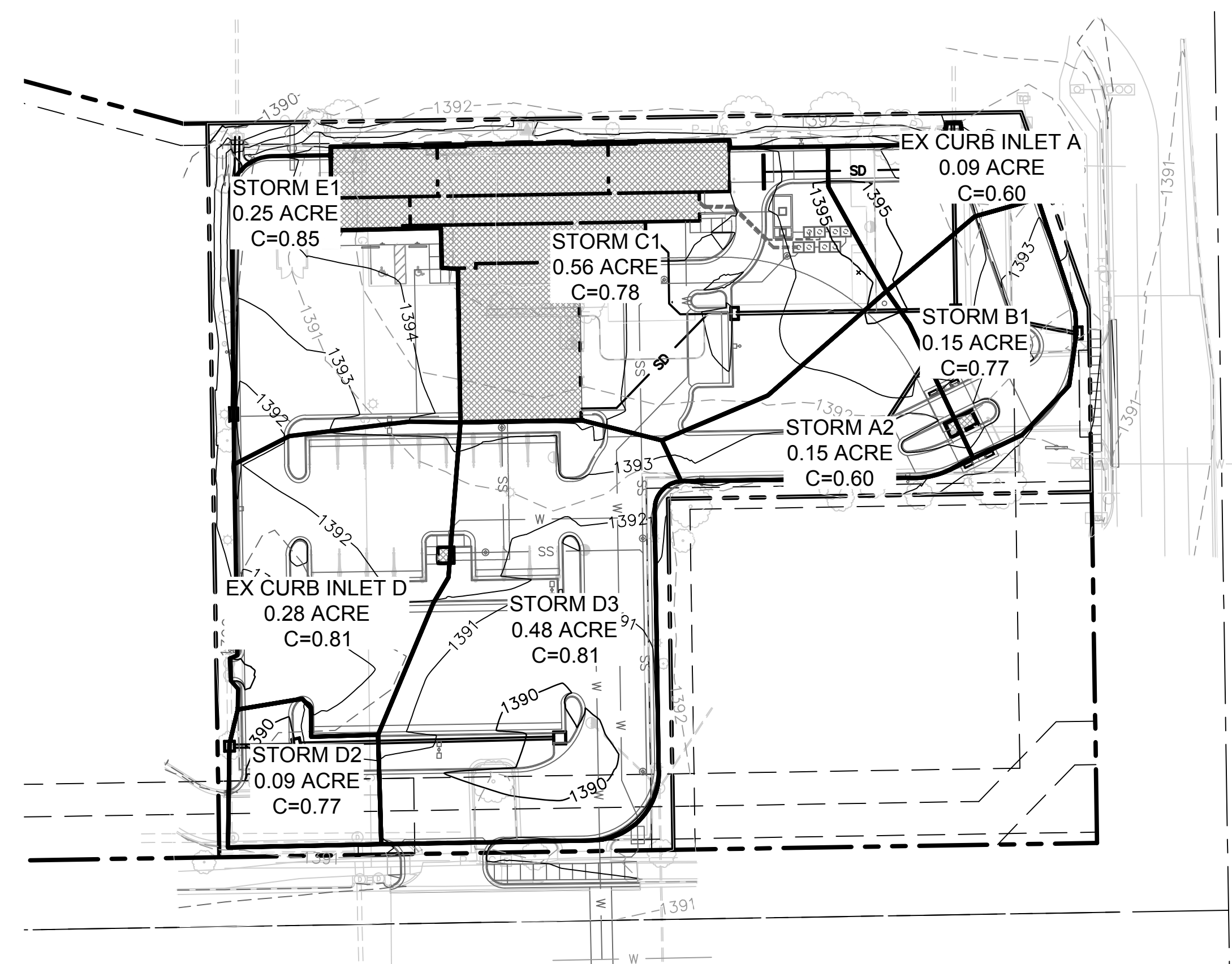
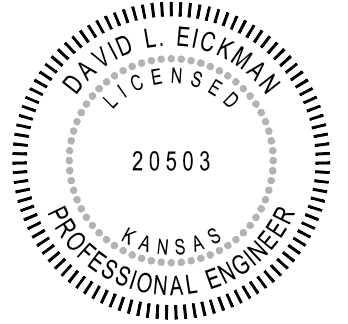
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PLOT DATE: _____

REVISIONS/DATE: _____

C5.2

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10-YEAR STORM CALCULATIONS

SUBBASINS

SN	Element ID	Description	Area (acres)	Drainage Node ID	Weighted Runoff Coefficient	Accumulated Precipitation (inches)	Total Runoff (inches)	Peak Runoff (cfs)	Rainfall Intensity (inches/hr)	Time of Concentration (days hh:mm:ss)
1	Sub-01		0.15	STORM A2	0.6000	0.65	0.39	0.70	7.825	0 00:05:00
2	Sub-02		0.15	STORM B1	0.7700	0.65	0.50	0.90	7.825	0 00:05:00
3	Sub-03		0.09	EX CURB INLET A	0.6000	0.65	0.39	0.42	7.825	0 00:05:00
4	Sub-EX CURB INLET D		0.28	EX CURB INLET D	0.8100	0.65	0.53	1.76	7.825	0 00:05:00
5	Sub-STORM C1		0.56	STORM C1	0.7800	0.65	0.51	3.44	7.825	0 00:05:00
6	Sub-STORM D2		0.09	STORM D2	0.7700	0.65	0.50	0.56	7.825	0 00:05:00
7	Sub-STORM D3		0.48	STORM D3	0.8100	0.65	0.53	3.06	7.825	0 00:05:00
8	Sub-STORM E1		0.25	STORM E1	0.8500	0.65	0.55	1.69	7.825	0 00:05:00

STRUCTURES

SN	Element ID	X Coordinate	Y Coordinate	Description	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft²)	Minimum Pipe Cover (inches)	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Maximum HGL Attained (ft)	Maximum HGL Depth Attained (ft)	Maximum Surcharge Depth Attained (ft)	Minimum Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Maximum HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-inches)	Total Time Flooded (minutes)
1	EX CURB INLET A	1675168.70	1706984.24		1385.56	1391.96	6.40	1385.56	0.00	1391.96	0.00	0.00	55.80	5.30	0.42	1386.76	1.20	0.00	5.20	1386.06	0.50	0 00:05	0 00:00	0.00	0.00
2	EX CURB INLET C	1674835.72	1706731.07		1385.22	1390.02	4.80	1385.22	0.00	1390.02	0.00	0.00	33.60	1.76	0.00	1385.88	0.66	0.00	4.14	1385.36	0.14	0 00:05	0 00:00	0.00	0.00
3	EX CURB INLET D	1674835.73	1706736.54		1385.38	1390.02	4.64	1385.38	0.00	1390.02	0.00	0.00	37.68	1.76	1.76	1385.90	0.52	0.00	4.12	1385.38	0.00	0 00:05	0 00:00	0.00	0.00
4	EX CURB INLET E	1674839.33	1706978.98		1382.81	1390.11	7.30	1382.81	0.00	1390.11	0.00	0.00	66.60	1.66	0.00	1383.66	0.85	0.00	6.45	1383.31	0.50	0 00:05	0 00:00	0.00	0.00
5	ROOF DRAINS	1675055.92	1706897.54		1388.93	1390.03	1.11	1388.93	0.00	1390.03	0.00	0.00	1.26	0.00	0.00	1388.93	0.00	0.00	1.11	1388.93	0.00	0 00:00	0 00:00	0.00	0.00
6	STORM A1	1675170.08	1706899.39		1387.19	1394.26	7.07	1387.19	0.00	1394.26	0.00	0.00	63.88	4.92	0.00	1388.44	1.25	0.00	5.82	1387.69	0.50	0 00:05	0 00:00	0.00	0.00
7	STORM A2	1675121.59	1706820.69		1388.16	1392.52	4.36	1388.16	0.00	1392.52	0.00	0.00	37.36	0.70	0.70	1388.47	0.31	0.00	4.05	1388.16	0.00	0 00:05	0 00:00	0.00	0.00
8	STORM B1	1675226.49	1706888.73		1387.98	1392.55	4.57	1387.98	0.00	1392.55	0.00	0.00	39.82	0.90	0.90	1388.34	0.36	0.00	4.21	1387.98	0.00	0 00:05	0 00:00	0.00	0.00
9	STORM C1	1675068.25	1706897.74		1388.20	1393.04	4.84	1388.20	0.00	1393.04	0.00	0.00	40.08	3.44	3.44	1388.97	0.77	0.00	4.07	1388.70	0.50	0 00:05	0 00:00	0.00	0.00
10	STORM D1	1674835.81	1706698.44		1384.98	1390.37	5.39	1384.98	0.00	1390.37	0.00	0.00	40.68	5.19	0.00	1386.17	1.19	0.00	4.20	1385.48	0.50	0 00:05	0 00:00	0.00	0.00
11	STORM D2	1674866.79	1706699.13		1385.64	1390.19	4.55	1385.64	0.00	1390.19	0.00	0.00	33.60	3.50	0.56	1386.84	1.20	0.00	3.35	1386.14	0.50	0 00:05	0 00:00	0.00	0.00
12	STORM D3	1674987.77	1706702.24		1386.74	1389.70	2.96	1386.74	0.00	1389.70	0.00	0.00	20.51	3.06	3.06	1387.45	0.71	0.00	2.25	1386.74	0.00	0 00:05	0 00:00	0.00	0.00
13	STORM E1	1674837.83	1706851.32		1385.86	1391.13	5.27	1385.86	0.00	1391.13	0.00	0.00	48.23	1.69	1.69	1386.21	0.35	0.00	4.92	1385.86	0.00	0 00:05	0 00:00	0.00	0.00

PIPES

SN	Element ID	Description	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (inches)	Pipe Width (inches)	Pipe Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	Lengthening Factor	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Max Flow Velocity (ft/sec)	Travel Time (min)	Design Flow Capacity (cfs)	Max Flow / Design Flow Ratio	Max Flow Depth / Total Depth Ratio	Total Time Surcharged (min)	Max Flow Depth (ft)	Reported Condition	
1	A1-EX CI		STORM A1	EX CURB INLET A	84.87	1387.19	0.00	1386.06	0.50	1.13	1.3300	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	4.91	0 00:05	6.94	0.20	8.08	0.61	0.56	0.00	0.70	Calculated	
2	A2-A1		STORM A2	STORM A1	92.43	1388.16	0.00	1387.69	0.50	0.47	0.5000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	0.69	0 00:05	4.61	0.33	4.97	0.14	0.25	0.00	0.31	Calculated	
3	B1-A1		STORM B1	STORM A1	57.41	1387.98	0.00	1387.69	0.50	0.29	0.5100	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	0.89	0 00:05	4.40	0.22	4.97	0.18	0.29	0.00	0.36	Calculated	
4	C1-A1		STORM C1	STORM A1	101.85	1388.20	0.00	1387.69	0.50	0.51	0.5000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	3.35	0 00:05	6.61	0.26	4.95	0.68	0.60	0.00	0.75	Calculated	
5	D1-RCB		STORM D1	Out-1D1-RCB	42.35	1384.98	0.00	1384.67	0.00	0.31	0.7300	CIRCULAR	24.000	24.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	5.19	0 00:05	5.24	0.13	19.37	0.27	0.35	0.00	0.71	Calculated	
6	D2-D1		STORM D2	STORM D1	30.99	1385.64	0.00	1385.48	0.50	0.16	0.5100	CIRCULAR	18.000	18.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	3.50	0 00:05	4.43	0.12	8.12	0.43	0.46	0.00	0.69	Calculated	
7	D3-D2		STORM D3	STORM D2	121.02	1386.74	0.00	1386.14	0.50	0.60	0.5000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	2.97	0 00:05	6.67	0.30	4.94	0.60	0.56	0.00	0.70	Calculated	
8	E1-EX CI		STORM E1	EX CURB INLET E	127.67	1385.86	0.00	1383.31	0.50	2.55	2.0000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	1.66	0 00:05	8.85	0.24	9.90	0.17	0.28	0.00	0.35	Calculated	
9	EX CI-D1		EX CURB INLET C	STORM D1	32.63	1385.22	0.00	1384.98	0.00	0.24	0.7300	CIRCULAR	24.000	24.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	1.75	0 00:05	3.85	0.14	19.37	0.09	0.20	0.00	0.40	Calculated	
10	EX CI-EX CI		EX CURB INLET D	EX CURB INLET C	5.47	1385.38	0.00	1385.36	0.14	0.02	0.3700	CIRCULAR	18.000	18.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	1.76	0 00:05	3.26	0.03	6.88	0.26	0.34	0.00	0.52	Calculated	
11	EX STUB A		EX CURB INLET A	Out-1EX STUB A	27.28	1385.56	0.00	1385.01	0.00	0.55	2.0000	CIRCULAR	15.000	15.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	5.29	0 00:05	7.72	0.06	9.14	0.58	0.55	0.00	0.68	Calculated	
12	EX STUB E		EX CURB INLET E	Out-1EX STUB E	53.95	1382.81	0.00	1381.73	0.00	1.08	2.0000	CIRCULAR	15.000	15.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	1.66	0 00:05	5.66	0.16	9.14	0.18	0.29	0.00	0.36	Calculated	
13	PIPE - (13)		ROOF DRAINS	STORM C1	12.33	1388.93	0.00	1388.70	0.50	0.23	1.8400	CIRCULAR	12.000	12.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	0.00	0 00:00	0.00	0.00	5.23	0.00	0.00	0.00	0.00	0.00	Calculated

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 USER: jnewland
 C_PSTRM_51062
 DAVID_EICKMAN_PE_KS
 C_PTLBK_51062

SUBMITTAL: 07/24/2015
 JOB NO.:
 CL No. 10
 FILE NAME:
 PLOT DATE:
 REVISIONS/DATE:

PLANS PREPARED BY:
 OLSSON ASSOCIATES
 1226 W. Beaufort Parkway
 Wichita, KS 67226
 Phone: 620.371.1118
 Fax: 620.371.1888

FOR:
GREEN LANTERN CAR WASHES
 GREEN LANTERN OF WICHITA NORTH
 3323 NORTH ROCK ROAD, WICHITA, KS 67226

C5.3

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100-YEAR STORM CALCULATIONS

SUBBASINS

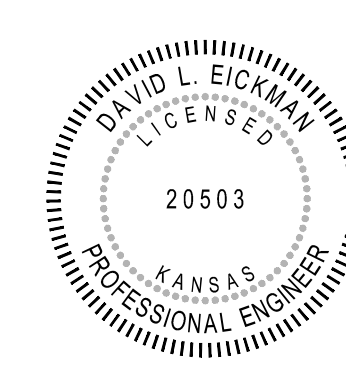
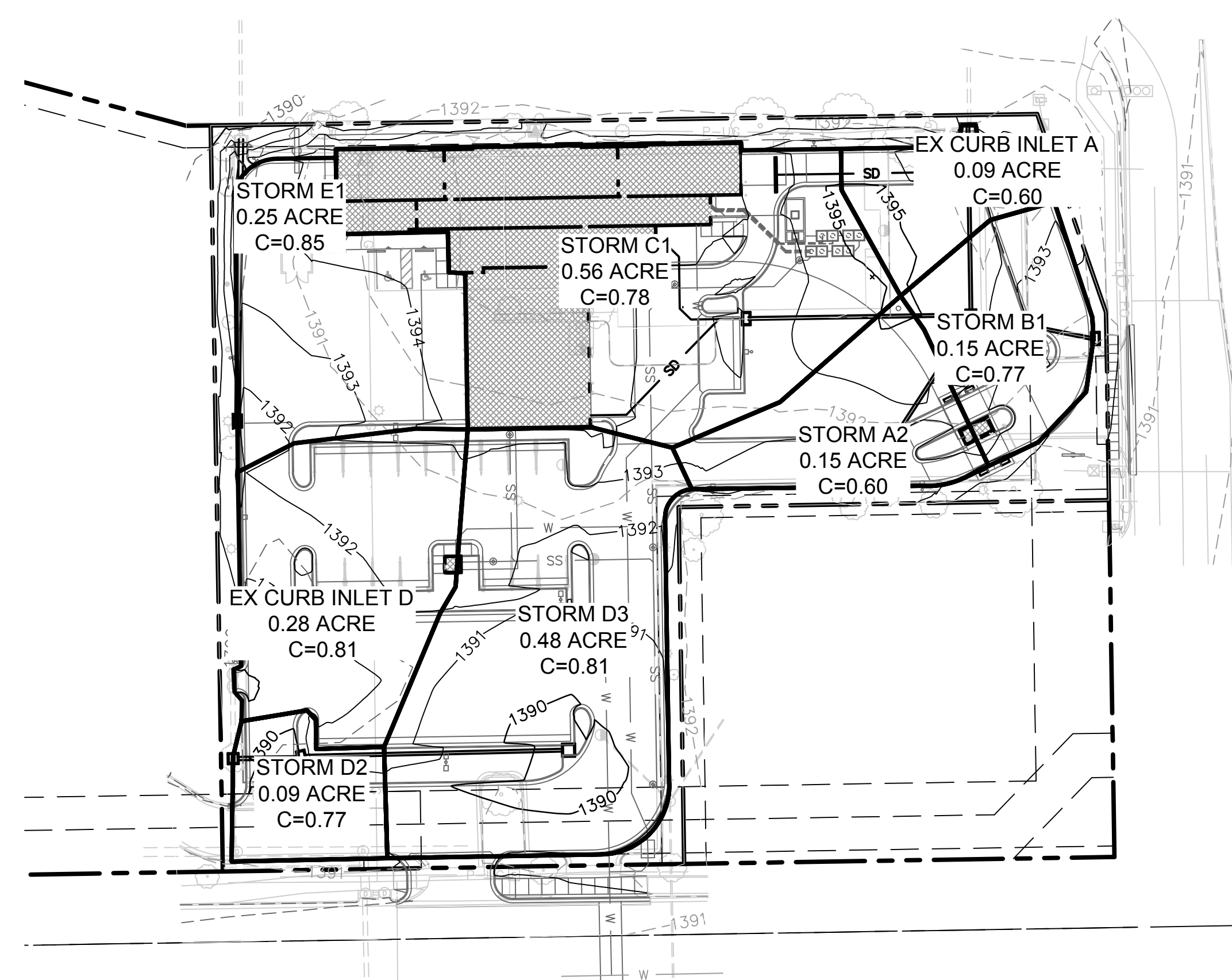
SN	Element ID	Description	Area (acres)	Drainage Node ID	Weighted Runoff Coefficient	Accumulated Precipitation (inches)	Total Runoff (inches)	Peak Runoff (cfs)	Rainfall Intensity (inches/hr)	Time of Concentration (days hh:mm:ss)
1	Sub-01		0.15	STORM A2	0.6000	0.93	0.56	1.01	11.168	0 00:05:00
2	Sub-02		0.15	STORM B1	0.7700	0.93	0.72	1.29	11.168	0 00:05:00
3	Sub-03		0.09	EX CURB INLET A	0.6000	0.93	0.56	0.60	11.168	0 00:05:00
4	Sub-EX CURB INLET D		0.28	EX CURB INLET D	0.8100	0.93	0.75	2.52	11.168	0 00:05:00
5	Sub-STORM C1		0.56	STORM C1	0.7800	0.93	0.73	4.90	11.168	0 00:05:00
6	Sub-STORM D2		0.09	STORM D2	0.7700	0.93	0.72	0.80	11.168	0 00:05:00
7	Sub-STORM D3		0.48	STORM D3	0.8100	0.93	0.75	4.36	11.168	0 00:05:00
8	Sub-STORM E1		0.25	STORM E1	0.8500	0.93	0.79	2.42	11.168	0 00:05:00

STRUCTURES

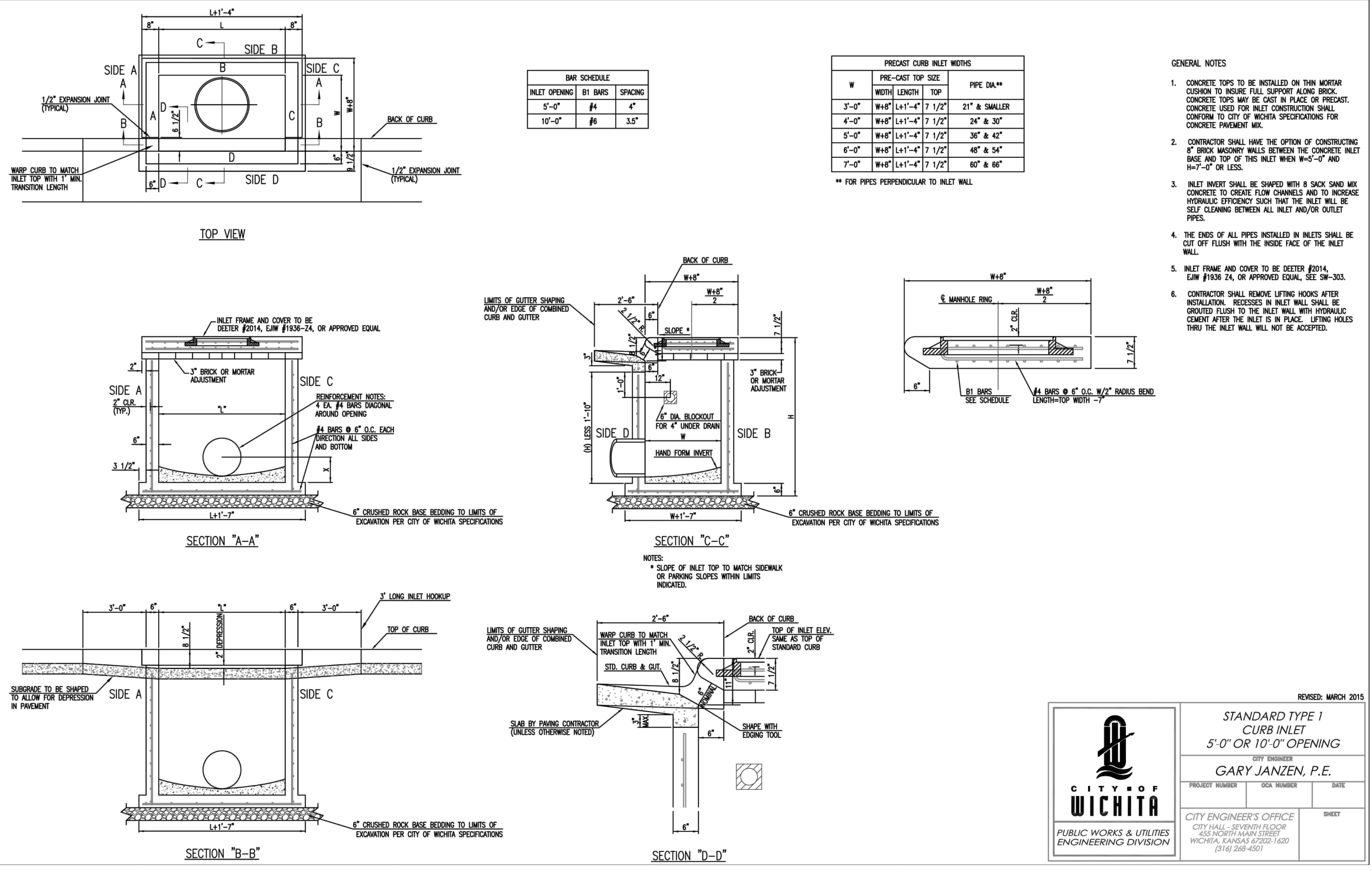
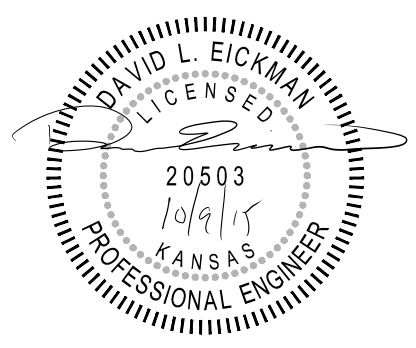
SN	Element ID	X Coordinate	Y Coordinate	Description	Invert Elevation (ft)	Ground/Rim (Max) Elevation (ft)	Ground/Rim (Max) Offset (ft)	Initial Water Elevation (ft)	Initial Water Depth (ft)	Surcharge Elevation (ft)	Surcharge Depth (ft)	Ponded Area (ft ²)	Minimum Pipe Cover (inches)	Peak Inflow (cfs)	Peak Lateral Inflow (cfs)	Maximum HGL Elevation Attained (ft)	Maximum HGL Depth Attained (ft)	Maximum Surcharge Depth Attained (ft)	Minimum Freeboard Attained (ft)	Average HGL Elevation Attained (ft)	Average HGL Depth Attained (ft)	Time of Maximum HGL Occurrence (days hh:mm)	Time of Peak Flooding Occurrence (days hh:mm)	Total Flooded Volume (ac-inches)	Total Time Flooded (minutes)
1	EX CURB INLET A	1675168.70	1706984.24		1385.56	1391.96	6.40	1385.56	0.00	1391.96	0.00	0.00	55.80	7.57	0.60	1386.96	1.40	0.00	5.00	1386.06	0.50	0 00:05	0 00:00	0.00	0.00
2	EX CURB INLET C	1674835.72	1706731.07		1385.22	1390.02	4.80	1385.22	0.00	1390.02	0.00	0.00	33.60	2.51	0.00	1385.99	0.77	0.00	4.03	1385.36	0.14	0 00:05	0 00:00	0.00	0.00
3	EX CURB INLET D	1674835.73	1706736.54		1385.38	1390.02	4.64	1385.38	0.00	1390.02	0.00	0.00	37.68	2.52	2.52	1386.01	0.63	0.00	4.01	1385.38	0.00	0 00:05	0 00:00	0.00	0.00
4	EX CURB INLET E	1674839.33	1706978.98		1382.81	1390.11	7.30	1382.81	0.00	1390.11	0.00	0.00	66.60	2.38	0.00	1383.73	0.92	0.00	6.38	1383.31	0.50	0 00:05	0 00:00	0.00	0.00
5	ROOF DRAINS	1675055.92	1706897.54		1388.93	1390.03	1.11	1388.93	0.00	1390.03	0.00	0.00	1.26	0.00	0.00	1388.93	0.00	0.00	1.11	1388.93	0.00	0 00:00	0 00:00	0.00	0.00
6	STORM A1	1675170.08	1706899.39		1387.19	1394.26	7.07	1387.19	0.00	1394.26	0.00	0.00	63.88	7.04	0.00	1388.68	1.49	0.00	5.58	1387.69	0.50	0 00:05	0 00:00	0.00	0.00
7	STORM A2	1675121.59	1706820.69		1388.16	1392.52	4.36	1388.16	0.00	1392.52	0.00	0.00	37.36	1.01	1.01	1388.54	0.38	0.00	3.98	1388.16	0.00	0 00:05	0 00:00	0.00	0.00
8	STORM B1	1675226.49	1706888.73		1387.98	1392.55	4.57	1387.98	0.00	1392.55	0.00	0.00	39.82	1.29	1.29	1388.41	0.43	0.00	4.13	1387.98	0.00	0 00:05	0 00:00	0.00	0.00
9	STORM C1	1675068.25	1706897.74		1388.20	1393.04	4.84	1388.20	0.00	1393.04	0.00	0.00	40.08	4.90	4.90	1389.21	1.01	0.00	3.83	1388.70	0.50	0 00:05	0 00:00	0.00	0.00
10	STORM D1	1674835.81	1706698.44		1384.98	1390.37	5.39	1384.98	0.00	1390.37	0.00	0.00	40.68	7.44	0.00	1386.33	1.35	0.00	4.04	1385.48	0.50	0 00:05	0 00:00	0.00	0.00
11	STORM D2	1674866.79	1706699.13		1385.64	1390.19	4.55	1385.64	0.00	1390.19	0.00	0.00	33.60	5.01	0.80	1387.03	1.39	0.00	3.15	1386.14	0.50	0 00:05	0 00:00	0.00	0.00
12	STORM D3	1674987.77	1706702.24		1386.74	1389.70	2.96	1386.74	0.00	1389.70	0.00	0.00	20.51	4.36	4.36	1387.65	0.91	0.00	2.05	1386.74	0.00	0 00:05	0 00:00	0.00	0.00
13	STORM E1	1674837.83	1706851.32		1385.86	1391.13	5.27	1385.86	0.00	1391.13	0.00	0.00	48.23	2.42	2.42	1386.28	0.42	0.00	4.85	1385.87	0.01	0 00:05	0 00:00	0.00	0.00

PIPES

SN	Element ID	Description	From (Inlet) Node	To (Outlet) Node	Length (ft)	Inlet Invert Elevation (ft)	Inlet Invert Offset (ft)	Outlet Invert Elevation (ft)	Outlet Invert Offset (ft)	Total Drop (ft)	Average Slope (%)	Pipe Shape	Pipe Diameter or Height (inches)	Pipe Width (inches)	Manning's Roughness	Entrance Losses	Exit/Bend Losses	Additional Losses	Initial Flow (cfs)	Flap Gate	Lengthening Factor	Peak Flow (cfs)	Time of Peak Flow Occurrence (days hh:mm)	Max Flow Velocity (ft/sec)	Travel Time (min)	Design Flow Capacity (cfs)	Max Flow / Design Flow Ratio	Max Flow Depth / Total Depth Ratio	Total Time Surcharged (min)	Max Flow Depth (ft)	Reported Condition
1	A1-EX CI		STORM A1	EX CURB INLET A	84.87	1387.19	0.00	1386.06	0.50	1.13	1.3300	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	7.01	0 00:05	7.47	0.19	8.08	0.87	0.72	0.00	0.90	Calculated
2	A2-A1		STORM A2	STORM A1	92.43	1388.16	0.00	1387.69	0.50	0.47	0.5000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	0.98	0 00:05	5.03	0.31	4.97	0.20	0.30	0.00	0.37	Calculated
3	B1-A1		STORM B1	STORM A1	57.41	1387.98	0.00	1387.69	0.50	0.29	0.5100	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	1.27	0 00:05	4.71	0.20	4.97	0.26	0.34	0.00	0.43	Calculated
4	C1-A1		STORM C1	STORM A1	101.85	1388.20	0.00	1387.69	0.50	0.51	0.5000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	4.80	0 00:05	7.12	0.24	4.95	0.97	0.79	0.00	0.98	Calculated
5	D1-RCB		STORM D1	Out-1D1-RCB	42.35	1384.98	0.00	1384.67	0.00	0.31	0.7300	CIRCULAR	24.000	24.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	7.44	0 00:05	5.77	0.12	19.37	0.38	0.43	0.00	0.86	Calculated
6	D2-D1		STORM D2	STORM D1	30.99	1385.64	0.00	1385.48	0.50	0.16	0.5100	CIRCULAR	18.000	18.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	5.01	0 00:05	4.84	0.11	8.12	0.62	0.57	0.00	0.85	Calculated
7	D3-D2		STORM D3	STORM D2	121.02	1386.74	0.00	1386.14	0.50	0.60	0.5000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	4.25	0 00:05	7.16	0.28	4.94	0.86	0.71	0.00	0.89	Calculated
8	E1-EX CI		STORM E1	EX CURB INLET E	127.67	1385.86	0.00	1383.31	0.50	2.55	2.0000	CIRCULAR	15.000	15.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	2.38	0 00:05	9.42	0.23	9.90	0.24	0.33	0.00	0.42	Calculated
9	EX CI-D1		EX CURB INLET C	STORM D1	32.63	1385.22	0.00	1384.98	0.00	0.24	0.7300	CIRCULAR	24.000	24.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	2.50	0 00:05	4.27	0.13	19.37	0.13	0.24	0.00	0.48	Calculated
10	EX CI-EX CI		EX CURB INLET D	EX CURB INLET C	5.47	1385.38	0.00	1385.36	0.14	0.02	0.3700	CIRCULAR	18.000	18.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	2.51	0 00:05	3.59	0.03	6.88	0.37	0.42	0.00	0.63	Calculated
11	EX STUB A		EX CURB INLET A	Out-1EX STUB A	27.28	1385.56	0.00	1385.01	0.00	0.55	2.0000	CIRCULAR	15.000	15.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	7.57	0 00:05	8.33	0.05	9.14	0.83	0.69	0.00	0.87	Calculated
12	EX STUB E		EX CURB INLET E	Out-1EX STUB E	53.95	1382.81	0.00	1381.73	0.00	1.08	2.0000	CIRCULAR	15.000	15.00	0.0130	0.5000	0.5000	0.0000	0.00	NO	1.00	2.37	0 00:05	6.27	0.14	9.14	0.26	0.35	0.00	0.43	Calculated
13	PIPE - (13)		ROOF DRAINS	STORM C1	12.33	1388.93	0.00	1388.70	0.50	0.23	1.8400	CIRCULAR	12.000	12.00	0.0120	0.5000	0.5000	0.0000	0.00	NO	1.00	0.00	0 00:00	0.00		5.23	0.00	0.00	0.00	0.00	Calculated



SUBMITTAL: 07/24/2015
 JOB NO.: CL No. 10
 FILE NAME:
 PLOT DATE:
 REVISIONS/DATE:
 PLANS PREPARED BY: OLSSON ASSOCIATES
 1226 W. Bluff Parkway
 Wichita, KS 67218
 Phone: 316.261.1888
 Fax: 316.261.1888
 FOR: GREEN LANTERN CAR WASHES
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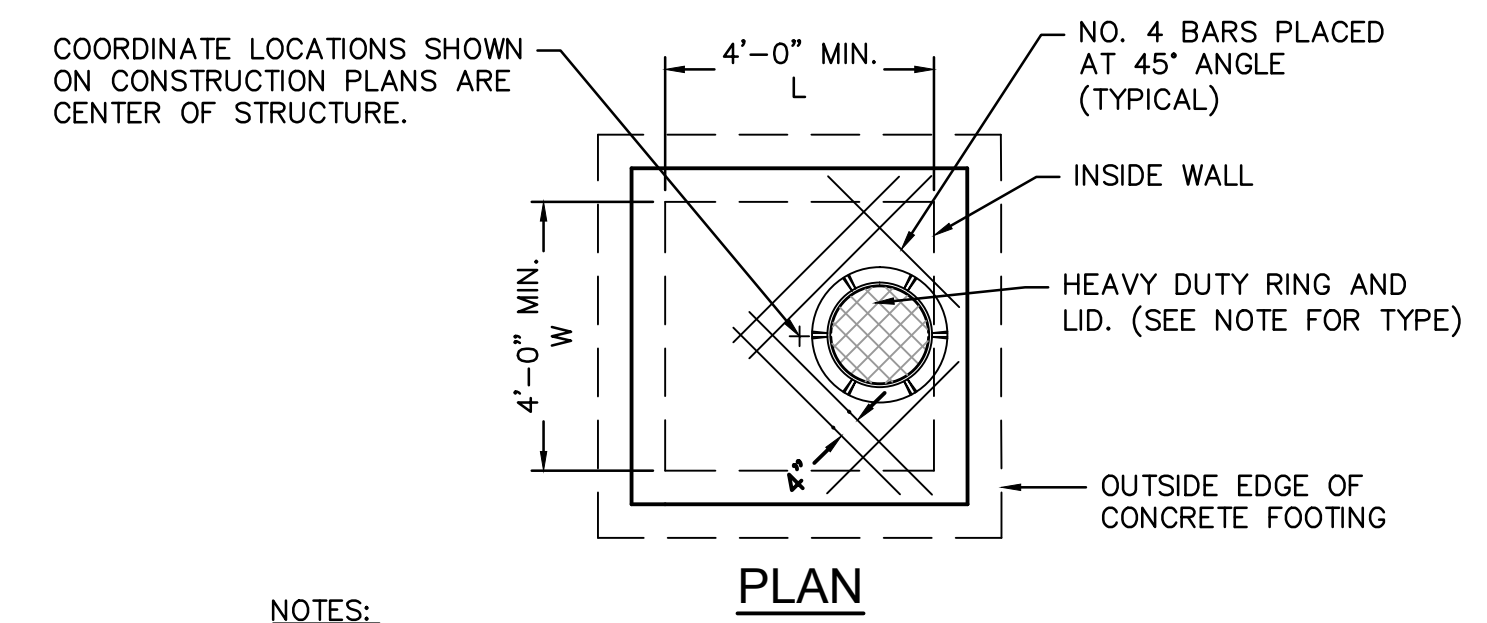
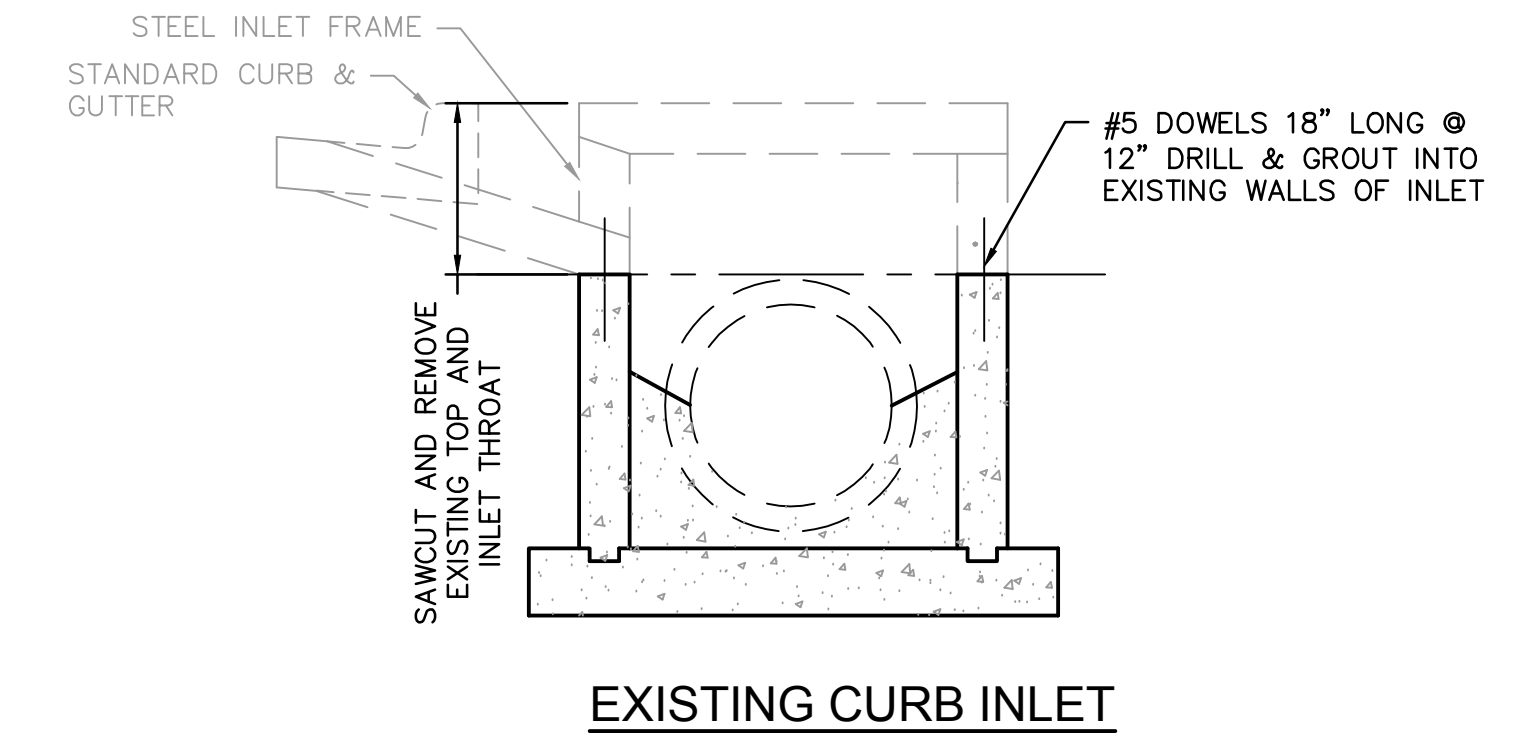
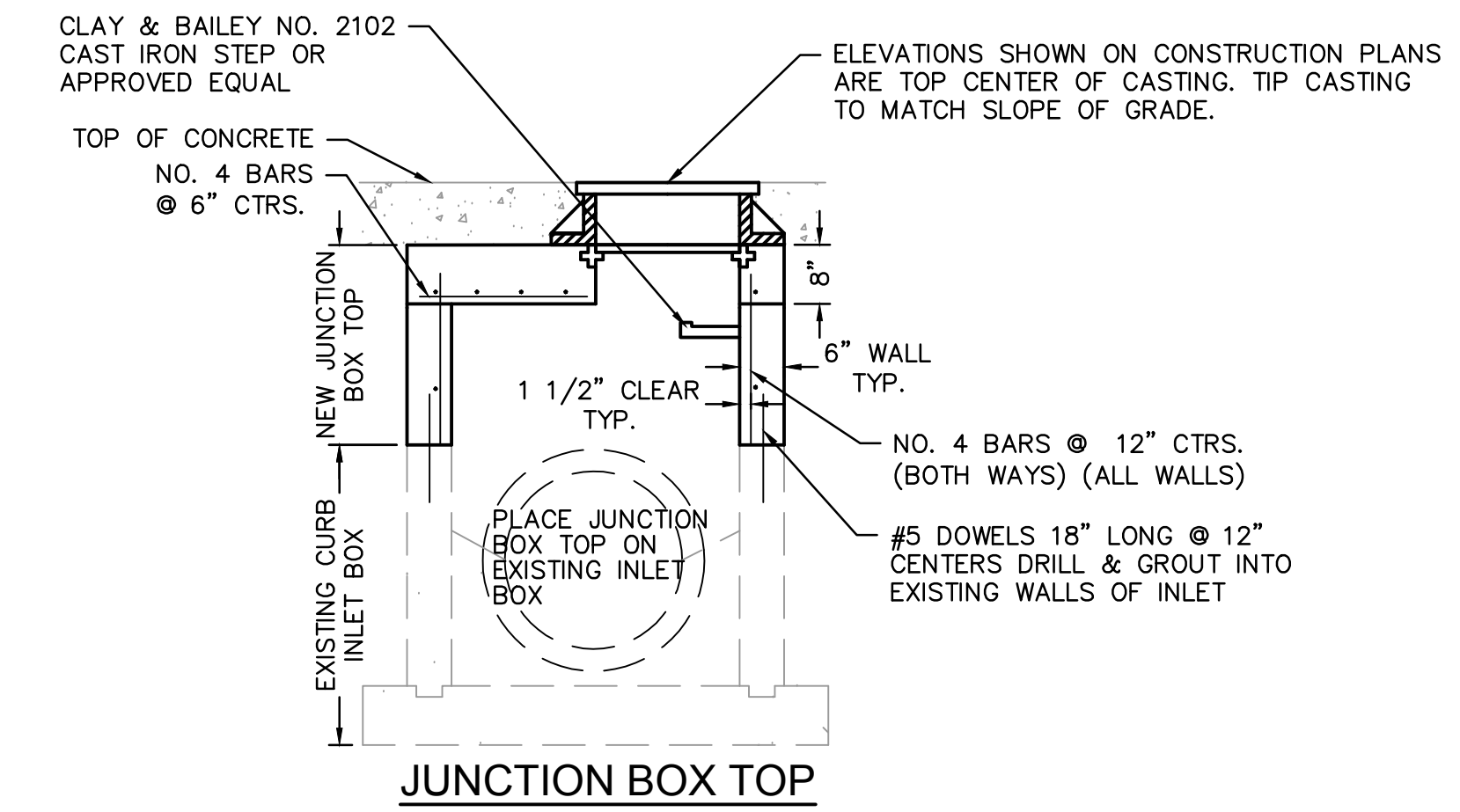
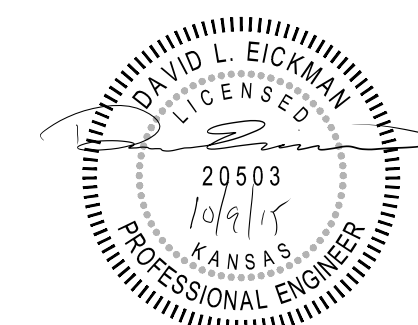
REVISED: MARCH 2015

STANDARD TYPE 1 CURB INLET
5'-0" OR 10'-0" OPENING

CITY ENGINEER
GARY JANZEN, P.E.

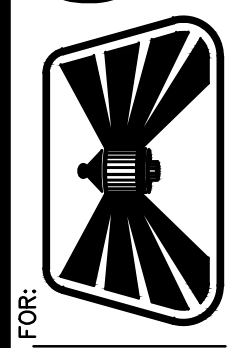
PROJECT NUMBER	OGA NUMBER	DATE
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CITY ENGINEER'S OFFICE
 CITY HALL - SEVENTH FLOOR
 455 NORTH MAIN STREET
 WICHITA, KANSAS 67202-1620
 (316) 268-4501



- NOTES:**
1. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615M, AND SHALL BE BENT COLD.
 2. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF $\pm 1/8"$ SHALL BE PERMITTED.
 3. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
 4. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS $\text{\textcircled{O}} 3'-0"$ MAXIMUM SPACING.
 5. FLOOR OF INLET SHALL BE SHAPED WITH INVERT TO PROVIDE SMOOTH FLOW.
 6. LOCATE MH RING OVER OUTLET. STEPS SHALL BE SPACED AT 1'-4" O.C. VERTICALLY.
 7. BEVEL ALL EXPOSED EDGES WITH 3/4" CHAMFER OR 1/2" TOOLED EDGE.
 8. MANHOLE RING AND COVER SHALL BE CLAY & BAILEY NO. 2007, NEENAH NO. R-1669, DEETER NO. 1320 OR GCI NO. SM2206 STD.

CURB INLET TO JUNCTION BOX CONVERSION DETAIL
 NOT TO SCALE

FOR: 

PLANS PREPARED BY: 

SHEET TITLE: **DETAILS GREEN LANTERN OF WICHITA NORTH**
 3323 NORTH ROCK ROAD, WICHITA, KS 67226

SUBMITTAL: _____ DATE: 07/24/2015
 JOB NO.: _____
 FILE NAME: _____
 PLOT DATE: _____
 REVISIONS/DATE: _____

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